Lucas Mancini

Software Development Engineer / Tech Lead

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PROFILE

I am a software engineer specializing in front end and mobile app development with over a decade of experience. Throughout my career, I have taken on various roles, including managing greenfield projects, leading diverse teams, and working for startups in stealth mode as well as large corporations. Additionally, I have actively contributed to open-source repositories. My skill set encompasses excellent communication abilities, proficiency in agile methodologies, and my knowledge is backed by a computer science degree.

I have a proven track record of building applications and delivering successful outcomes, particularly in startups and medium-sized businesses, many of which achieved successful exits within two years of my initial involvement.

My key strengths in programming are:
- Highly proficient with modern JavaScript (including Node and TypeScript), C++, Java and Clojure.
- Scripting with Python, Perl and Bash.
- Web development, responsive design, object oriented programming, design and architectural patterns.
- Functional programming concepts (immutability, pure functions, function composition, avoiding side effects, etc).
- Development of graphical user interfaces and design systems.
- Database schema design and querying, for both relational and NoSQL databases.

EXPERIENCE

Senior Software Engineer   *Sydney, Australia*
Wagetap   *May 2024 - present*

Wagetap is a startup backed by Y Combinator (W22) and its mission is to elevate people's finances through innovative financial products. The main two products offered by the company, Wage Advance and Bill Split, are used by thousands of users.

At Wagetap, I'm in charge of all the frontend systems, their build infrastructure and their deployment. This comprises the iOS and Android mobile applications, a web application, a marketing website, a backoffice application, as well as other small systems.

Achievements:
- Modernized a quite outdated React Native codebase by updating the framework and other dependencies to their latest versions. As a result, the user perceived crash rate was drastically reduced from 0.85% to 0.06% (28 day rolling average).
- Worked on a new greenfield project to expose a web interface for the product.
- Participated in the design and implementation of several growth and marketing experiments to drive revenue.
- Architectured a custom build process to build multiple flavours of the apps from the same codebase in other to launch the application in other regions, along with their "i18n" configuration.

Technologies and tools used: TypeScript, React, React Native, Tailwind, GraphQL, Yarn, Vite, JIRA, Bitbucket, AWS DynamoDB, AWS Lambda, Gatsby, Amplitude, Segment, Figma, Contentful, Tinybird.

Senior Software Engineer   *Sydney, Australia*
Earlytrade   *Nov 2022 - Apr 2024*

Earlytrade is an Australian fintech company that provides solutions around early payments. It facilitates on-demand access to liquidity for the supply chain.

Achievements:
- Developed a Design System from scratch using Storybook and the Material UI library. This project provides a library of components that can be consumed from different applications within the range of solutions provided by the company.

- Worked on a greenfield project which launched an MVP version within 6 months and that later onboarded some real customers to try the beta version. Used a monorepo for the project and the UI was built with Vite, React, and the component library developed in-house.
- Executed a rebranding of the company's image. A new logo, color palette and fonts were introduced so all the user facing products were migrated to follow the new brand.

Technologies and tools used: TypeScript, React, Styled Components, GraphQL, MUI, Storybook, Yarn, Vite, JIRA, Bitbucket, AWS, Java, PostgreSQL.

Front End Tech Lead   *Sydney, Australia*
Bottle Stop (formerly BoozeBud)   *Jul 2020 - Oct 2022*

Bottle Stop (formerly branded as BoozeBud) was, at some point, the fastest-growing alcohol retailer in Australia, experiencing 100% year-over-year growth for more than 5 consecutive years.

Achievements:
- Effectively managed the Front End team (comprising approximately 3 developers), which was responsible for a complex e-commerce system. This system involved a responsive React single-page application implemented using TypeScript and Redux. We employed continuous delivery, functional programming, data analytics, artificial intelligence, and agile methodologies.
- Designed a new hiring process for the Front End Team, including candidate screening and interviews.
- Conducted performance assessments and optimizations for the application in accordance with Google's Core Web Vitals guidelines. These efforts aimed to enhance loading times, interactivity, and layout stability.

Front End Senior Engineer   *Sydney, Australia*
Bottle Stop (formerly BoozeBud)   *Jul 2019 - Jun 2020*

Achievements:
- Played a key role in the development of the "next generation" version of the system, featuring a dynamic routing mechanism and pages built using a consistent atomic design approach.
- Contributed significantly to achieving PCI compliance for processing credit card payments. Additionally, successfully integrated new payment methods, including PayPal and Zip.
- Orchestrated the integration of a push notification messaging system and deep links for both Android and iOS apps.
- Implemented an automated event capture system to provide input for the machine learning algorithm utilized in the recommendation engine module.
- Led the implementation of a comprehensive platform-wide rebranding initiative, encompassing a new logo, font guidelines, color palette, and SVG icons.

Technologies and tools used: TypeScript, React, Redux, Sass, Yarn, Asana, Github, Travis, AWS, Webpack, React Native, Android, Scala, Java, Objective C, GatsbyJS.

Senior Front End JavaScript Developer   *Remote*
Altitude Networks (acquired by CoinList)   *Sep 2018 - Jul 2019*

Worked on a greenfield project, spearheading the creation of a front-end application from the ground up. The project encompassed the development of a React web application, serving as an interface to present data from serverless Amazon Lambda functions. Notably, the application includes a dashboard and various visualization components.

Achievements:
- Played a pivotal role in the successful migration of the application from JavaScript to TypeScript before its initial release.
- Formulated a comprehensive testing strategy centered around unit and integration tests, employing Jest in tandem with react-testing-library.
- Implemented a highly interactive marketing website focused on explaining the features of the product. This static site was meticulously optimized for mobile devices, accessibility, and search engine optimization (SEO).

Technologies and tools used: TypeScript, React, Jest, React Testing Library, Sass, Yarn, JIRA, Github, Travis, Amazon Cognito, Amazon API Gateway, AWS Amplify, Chartist.js, Zeplin.

Senior JavaScript Engineer
Zugata (acquired by Culture Amp)

Remote
Jul 2017 - Jul 2018

Contributed to both the Front End and Browser Plugin components of Zugata's flagship product, an application that facilitates customer interaction for peer feedback and empowers professional development.

I developed new features for the React web application based on agile biweekly sprint commitments. I also assessed and prioritized technical debt, creating JIRA cards for necessary tasks. I revamped the application's design to adhere to enterprise standards and conducted regular code review sessions to mentor interns and team members. Additionally, I led an i18n (internationalization) project for the React app and streamlined local development environments through Docker-based setups.

Technologies and tools used: JavaScript, React, Reflux, Webpack, Less, D3.js, Materialize, Phabricator, Jest, Enzyme, lodash, Yarn, Gulp, Immutable.js, react-intl, JIRA, Github, Codeship.

Senior Full Stack Developer
Omega Point

Remote
Mar 2016 - Jan 2017

Worked on the company's Portfolio Intelligence product, a tool that enables investment managers to understand, visualize, and optimize their portfolios. The platform is powered by React and Node (MERN stack).

In my role, I help to transition the architecture of the app to a Redux model. I took charge of introducing new features, including a background job importer for financial data plugged into a MongoDB instance. I conducted substantial refactorings of legacy code, enhancing its manageability, extensibility, and performance. Additionally, I made contributions to the team's processes, defining the branching model and release procedures.

Technologies and tools used: JavaScript, React, Redux, Node.js, Express, MongoDB, EcmaScript6, Heroku, Github, CircleCI, PivotalTracker.

Android Developer
Freelance

Sydney, Australia
Apr 2015 - Feb 2016

Developed TherApp, a mobile application for Android phones and tablets. The client was the Australian Catholic University (ACU). This medical app was part of a larger project aimed at conducting research on children with cerebral palsy.

Front End JavaScript Developer
News Corp Australia

Sydney, Australia
Jul 2014 - Jan 2015

As a member of the Product Delivery team, I was responsible for developing new features and resolving defects on both desktop and mobile versions of the company's five primary mastheads. I operated within a stringent agile development environment, utilizing Scrum as the methodology for all projects.

Achievements:
- Build process optimization improvements.
- Successfully executed the rebranding of the Perth Now site to align with the design of the company's other mastheads.
- Launched new Article Page, featuring a fully unified responsive design tailored for phone, tablet, and desktop devices.

Technologies and tools used: JavaScript, jQuery, Grunt, Gulp, BrowserSync, Jade, Compass/SASS, RequireJS, git, Mocha.

C++ / JavaScript Developer
Core Security

Buenos Aires, Argentina
Feb 2010 - May 2014

Contributed as a team member to the development of Core Impact, a renowned desktop application in the field of information security and penetration testing software. Engaged in creating new features, maintaining

the graphical user interface (GUI) coded in C++ and MFC, as well as managing Python modules. Additionally, played a role in developing new reports utilizing MS SQL Server and Crystal Reports.

EDUCATION

Universidad de Buenos Aires (UBA), Argentina   *2005-2012*
Software Engineering - Ingenieria en Informática
 The engineering degree at the University of Buenos Aires in Argentina is comparable mostly to a Master of Engineering. It is a 6-year degree, with all its coursework fully dedicated to Software Engineering and Computer Science, ending with a (thesis-like) Final Project.

Average grade: 8.05 / 10

University of Cambridge, UK   *2004*
International Certificate of Education
 The ICE award (International Certificate of Education) comprises seven IGCSE subjects.

LANGUAGES

English, Spanish, Portuguese (elementary)

PROJECTS

Github profile: https://www.github.com/lucas-mancini