Lucas Castro

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EXPERIENCE

Software Engineer — Feb 2023 – Present
Trinsic — *Remote, US*
- Implemented and maintained features for a platform as a service product for verifiable credentials
- Improved the user dashboard navigation according to design prototypes using React and TypeScript
- Launched a brand new product offering leveraging internal APIs as microservices
- Maintained and extended back-end features on a large enterprise software written in C# with ASP.NET
- Wrote API references, user guides, example apps, and automated tests to document platform key features
- Discussed daily project updates in agile stand-up meetings with a cross-functional development team

Software Engineer, Internship — May 2022 – Aug 2022
Pluralsight — *Draper, UT*
- Developed experimental features for user onboarding experience on the Pluralsight platform
- Leveraged internal APIs to complete the development of a unfinished notification widget
- Patched software dependencies and refactored codebase to reduce security vulnerabilities by 65%
- Migrated 100% of a React component library written in JavaScript to TypeScript
- Engaged with lean software development in a cross-functional development team

Programmer — Jun 2020 – Aug 2021
Utah County Government — *Provo, UT*
- Implemented a demographic ETL system capable of parsing over 120,000 rows of data per day
- Wrote an application for project estimation using a simple prediction algorithm with 90% accuracy
- Developed a cloud-based appointment scheduling system used by over 250,000 patients
- Increased test coverage of a large web application by 60% with an end-to-end testing framework

QA Engineer, Internship — Apr 2020 – Aug 2020
Utah County Government — *Provo, UT*
- Developed and executed of test plans, cases, and scripts to ensure the quality of software product
- Conducted thorough manual testing of a large-scale web application
- Collaborated with engineers to reproduce reported issues and assist in their resolution
- Documented test procedures, test results, and test logs clearly and comprehensively
- Authored an end-to-end test automation framework using C# and Selenium

PROJECTS

Ryde Schedule SMS | *Python, AWS, Twilio* — Dec 2022 - Jan 2023
- Integrated a web-scraper and AWS lambdas to implement an on-demand bus schedule SMS service.
- Leveraged Twilio SMS Service to trigger a webhook set up through AWS lambda
- Developed a web-scraper in Python to scrape BYU's Ryde service webpage to feed into a json file stored in AWS s3

Herald | *TypeScript, React, Tailwind CSS, GraphQL* — Dec 2022
- Developed a full-stack application with TypeScript and React using the Next.js framework
- Implemented social authentication with GitHub OAuth
- Leveraged third-party services to integrate payments and content management

SKILLS

Languages: JavaScript, TypeScript, Python, SQL, C#, Java, C
Technologies: React, Node.js, Flask, Tailwind CSS, GraphQL, ASP.NET, MongoDB, DynamoDB
Cloud: AWS, Microsoft Azure, Firebase, GitHub Actions, Docker
Practices: Automated Tests, CI/CD, Agile, Microservices, Technical Writing, UX Design

EDUCATION

Brigham Young University — Provo, UT
Bachelor of Science in Computer Science — *Apr. 2021 – Apr 2023*