Mario Pereira

Full Stack Developer

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Summary

Experienced Software Engineer versatile in both front-end and back-end development, cloud infrastructure, and project management. With a solid background in QA testing, excels at building robust, scalable, and efficient software solutions. Passionate about teaching, engaging in system design brainstorming, and automating processes to drive operational efficiency.

Technical Skills

Languages
JavaScript (JS), TypeScript (TS), Python

Frontend
React, EJS, TailwindCSS, Nextjs, styled-components

Backend
Express, Node, Websockets, WebRTC, Flask, Cloud functions

Databases
MongoDB, PSQL, Redis, ConvexDB

Testing
Cypress, Jest, Postman, Puppeteer, Selenium

DevOps
Git, Perforce, EC2, Netlify, Vercel, Github Actions, CI/CD

Work Experience

Full Stack Software Engineer

Paystone | Aug 2022 - Apr 2023

- Spearheaded Cypress E2E testing implementation for the Paystone application, while identifying 30+ UI bugs.
- Led a major initiative to modernize a legacy reporting dashboard, transitioning to a new platform using React and styled-components, resulting in a ~30% reduction in page load times.
- Contributed to the application reskinning during a rebranding effort, implementing new components and styling.
- Improved React components with improved logic, functionality, performance, and user experience, improving app responsiveness by ~10-15%.
- Played a pivotal role in updating and improving legacy payments code and developing internal tools for on-call engineers.
- Advocated for the improvement of Cypress in the development workflow, enhancing maintenance and usage.
- Utilized MongoDB, TypeScript, AWS/GCP cloud functions & App engine routes, React, styled-components, Cypress, and Jest.

Software Developer

Intuit | Jan 2022 - Aug 2022

- Developed a PowerShell utility software that automated a daily ~1-hour manual process, reducing the time to a single click for 10-15 team members.
- Led the initiative to overhaul an internal tool using React and PDFjs that significantly improved tax form creation time by 60% over the old tool.
- Automated QA 50+ testcases, resulting in a 30% reduction in testing time/manual QA efforts.
- Diagnosed software payload errors utilizing Splunk and Postman, reducing error rates by 20%.

Application Support Specialist

InsideDesk | Oct 2021 - Jan 2022

- Implemented automation of processes using Google Apps Script, Selenium/Python, and Power Automate, resulting in substantial time savings for staff.
- Enhanced workflow efficiency by developing software connectors/APIs, automating the flow of insurance claim information.
- Addressed bugs and user feedback adeptly using relevant tools.

Quality Assurance / Tax Forms Specialist,

Intuit | Aug 2019 - Oct 2021
- Contributed to the development of the ProTax filing suite, involving tax research, algorithm implementation, bug identification, and software quality assurance.
- Cataloged and updated over 400+ tax forms for tax years 2019, 2020 and 2021.
- Created and documented over 700+ manual QA workflows/test cases to test all major tax forms in predictable manner.

Projects

Communityfocus
- Led a 20-member group project (2-3 months) to build a shared time management app using websockets to sync events between clients.
- Skills gained: Mentoring, Code reviews, Issue writing, project management.
- Stack: React, TypeScript, MongoDB, Expressjs, Socket.io and styled-components.
- Link: communityfocus.app | github.com/CommunityFocus

100Editors
- Built a shared text editor game for a 2-week hackathon where users type a story based on validation rules.
- Stack: Nextjs, React, TailwindCSS, WebRTC, Quill and Yjs.
- Link: 100editors.vercel.app | github.com/web-dev-cody-hackathon/100editors

PriceDashBoard
- Developed a dashboard that reports prices of products compared other stores.
- Implemented Webcrawlers on 5 different online store websites to crawl the price of all store products.
- Skills gained: Webcrawling, caching, MongoDB full-text search.
- Stack: Puppeteer, Axios, Typescript, Express, MongoDB, and React, Tailwind/DaisyUI CSS.
- Link: price-compare.nmpereira.com

ConvoCards
- Created a Conversation Card game where users can play the deck using user submitted card prompts.
- Implemented user authentication, admin dashboard and a Fullstack webapp
- Stack: Express, EJS, Tailwind / DaisyUI CSS, Auth0 and MongoDB.
- Link: cards.nmpereira.com | github.com/nmpereira/cardGameBackend

Education
- **Bachelors in Business Administration (BBA),** University of Toronto (2019)
- **Full Stack Software Development,** 100Devs Bootcamp (2021)