Mario Pereira

nikhilpereira125@gmail.com | 647-668-7184 | linkedin.com/in/nikhilpereira25/ | nmpereira.com

Experienced **Software Engineer** versatile in **front-end** and **back-end** development, and vast experience with technologies like **Javascript, Typescript, Node.js, Python, React.js, databases, testing, docker, deployment,** and **AWS.**

Work Experience

Software Engineer, Intuit   Aug 2023 – Present
- Built **highly scalable**, **well-tested** tax software applications using **C#, Java, React.js,** and **PostgreSQL (RDBMS)**.
- Achieved comprehensive test coverage across multiple codebases in **Java** and **C#**.
- Developed and deployed **maintainable** internal tools using **React.js** and **PostgreSQL**, empowering tax analysts and stakeholders to contribute more effectively to software enhancements and tax calculations.
- Acted as the technical subject matter expert, mentoring fellow engineers, demonstrating technical expertise, creating documentation, and leading a team in solving challenging software and design problems.

Full Stack Software Engineer, Paystone   Aug 2022 – Apr 2023
- Utilized **JavaScript, TypeScript, Python, AWS, GCP, React, MongoDB (NoSQL), Cypress,** and **Jest**.
- Led a major initiative to modernize a legacy reporting dashboard, transitioning to a new platform using **React** and **GraphQL**, resulting in a 30% improvement in page load times.
- Spearheaded **Cypress** E2E **testing implementation** for the Paystone app, while identifying 30+ UI bugs.
- Improved **React** components with improved logic, functionality, performance, and user experience, improving app responsiveness by 20%.

Software Developer, Intuit   Aug 2019 – Aug 2022
- Developed a **Python** 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+ test cases, resulting in a 30% improvement in testing time/manual QA efforts.
- Diagnosed software payload errors utilizing Splunk and Postman, and improved error rates by 20%.

Tax Forms Specialist / Quality Assurance, Intuit
- Contributed to the development of the ProTax filing suite, involving tax research, algorithm implementation, bug identification, and software quality assurance.
- Created and documented over 700+ manual QA workflows/test cases to test all major tax forms in predictable manner.

Projects

Grocery price compare crawler (private & in progress – will demo on request)
- Currently working on an app to **web scrape** and crawl 30+ grocery store prices (2000+ locations) across Canada and present them to the user as a way to save on grocery bills.
- Architected pipelines from data cleaning to using efficient algorithms to store and serve data to the end user.
- Used OpenAI/LLama AI models to derive critical and actionable insights, providing the user with enhanced value.
- Monitoring (New relic), Deployment (Github actions, Docker)
- Skills gained: Web scraping, **SQL**, Prisma ORM, improving code efficiency, **UI/UX design** with **Figma**
- Stack: Node, Cheerio, **Puppeteer**, Axios, **React**, **Docker**, **MySql**, Prisma/Drizzle ORM, OpenAI/LLama AI models, **AWS: S3, EC2**

CommunityFocus
- Led a 10-member project (3 months) to build a shared time management app using **WebSockets** to sync events between clients.
- Skills gained: Mentoring, Code reviews, Issue writing, and 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