Lucas Palazzi

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WORK EXPERIENCE

XYZ Digital Inc.   **Jan 2021 - July 2024**
Full Stack Software Developer   *Vancouver, BC (Remote)*

- Collaborated with cross-functional teams in an agile environment to deliver user-facing product features using React and Node.js, including developing user interfaces, building REST API services, integrating third-party software components, writing and maintaining unit tests, and participating in code reviews.
- Led the end-to-end development of a full-stack application from concept to production using React, Node.js, Express.js, and MongoDB. Managed server infrastructure using Digital Ocean and GCP Cloud Run, ensuring reliable deployment and continuous integration/delivery.
- Integrated multiple backend services, including a REST API with user authentication (Node.js+MongoDB) and a modified open-source map routing algorithm, ensuring seamless data flow, optimized performance, and enhanced user experience for real-time location-based services.
- Implemented a CI/CD pipeline with Jest unit tests to automate deployments, enhancing scalability and reducing bugs in production.
- Implemented a cross-stack typing system for a user-facing application with TypeScript and refactored REST APIs, enhancing type safety between client and server code and improving maintainability.

DataRealm Inc.   **Feb 2020 - Dec 2020**
Software Developer   *Windsor, ON*

- Collaborated with engineers and technicians to develop an augmented reality (AR) platform for operator training in the manufacturing industry, utilizing Microsoft HoloLens, C#, and Unity game engine.
- Developed an API using C#/.NET to facilitate communication between HoloLens devices and server-hosted SQL databases, enabling CRUD operations and streamlining the application's process and usability.

EDUCATION

The University of British Columbia   **Jan 2018 - Nov 2019**
MASc, Electrical and Computer Engineering   *Vancouver, BC*

Research areas: Fault tolerant computing systems, fault injection techniques

Thesis title: Experimental evaluation of software-implemented fault injection at different levels of abstraction

- Developed a machine learning-based framework for improving the accuracy of fault injection results using Python.
- Course highlights: Machine Learning and Data Mining (93%), Error Resilient Computing Systems (90%)

University of Windsor   **Sep 2013 - Oct 2017**
BASc, Electrical Engineering • Minor, Mathematics   *Windsor, ON*

SKILLS

Programming languages: JavaScript, TypeScript, HTML, CSS, C#, Python, C/C++
Frameworks and libraries: React, Node.js, Express.js, MongoDB, PostgreSQL, Prisma ORM, TailwindCSS, Remix
Tools and services: Git/GitHub, Linux, Docker, Digital Ocean, GCP Cloud Run, Sentry, Jest, Jira, CI/CD, Unity
Soft skills: Problem-solving, communication, teamwork and collaboration, adaptability, creativity, organization

HIGHLIGHTED PROJECT

SafeCycle • *XYZ Digital Inc.* • safecycle.xyz • github.com/lpalazzi/safe-cycle   **Jan 2023 - Present**

Open-source bike navigation app

Roles: Project manager, lead developer, client relations, DevOps

Stack: TypeScript, React, Node.js, Express.js, and MongoDB