

# Piran Aminullah

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## Education

### Western University

Bachelor's of Engineering Science, Software Engineering

London, ON

Sept 2020 - Apr 2024

- Western Engineering Co-op/Internship Program
- **Course Work:** Data Structures and Algorithms, Databases, Networking, Software Engineering Design, Software Project and Process Management, Software Design, Computer Information Security, Data Science/Machine Learning, Digital Logic Systems, Microprocessors/Microcomputers, Operating Systems, Artificial Intelligence I & II, Cloud Computing

## Work Experience

### hyperPad

London, ON

Junior Software Engineer

Jan 2025 - Current

- Architected and developed core features for a major financial platform serving 100,000+ professionals through contracting work, including complex investment account visibility algorithms and form component modernization.
- Led full-stack development of a comprehensive schema management and translation system, enabling dynamic form generation and multi-language support across 7 languages using i18n integration
- Designed and implemented Domain-Specific Language (DSL) processors for automated schema translations, significantly improving administrator efficiency and reducing manual configuration overhead
- Developed comprehensive test suites using Cucumber, RSpec, and Jest, ensuring robust UI functionality and backend reliability in a regulated financial environment
- **Technologies Used:** Ruby on Rails 6/7, React.js, JavaScript, TypeScript, i18n, GitLab, Cucumber, RSpec, Jest, Material-UI, Docker, AWS, Redux, Redis, Honeybadger, Okta

### hyperPad

London, ON

Software Developer Internship

Sept 2024 - Jan 2025

- Spearheaded backend infrastructure upgrades, migrating Ruby on Rails systems from version 6 to 7 while maintaining production stability for high-traffic financial applications
- Enhanced and maintained backend systems using Ruby on Rails and Node.js, focusing on upgrading legacy codebases to improve scalability and performance
- Delivered dynamic and responsive features for React.js and React Native applications, ensuring seamless user experiences across platforms
- **Technologies Used:** Ruby on Rails 6/7, React.js, React Native, Node.js, JavaScript, TypeScript, i18n, GitLab, Cucumber, RSpec, Jest, Material-UI, Docker, AWS, Redux, Redis

### HiCoder

Canada (Remote)

Software Engineer Internship

Jun 2024 - Sept 2024

- Led design and development of scalable server-side applications using Node.js, enhancing performance and reliability, while developing responsive client-side features using React.js.
- Assisted in building and implementing RESTful APIs, facilitating efficient communication between server and client applications.
- Diagnosed and resolved performance bottlenecks in Node.js applications, improving application responsiveness and user experience.
- **Technologies Used:** Node.js, Express.js, React.js, JavaScript, HTML, CSS, Material UI/ThemeUI

## Engineering Projects

### Intelligent Traffic Management System - <https://github.com/piran777/Capstone>

London, ON

- Built ML traffic prediction system using random forest classifier to accurately forecast intersection congestion patterns and optimize route planning.
- Developed Python heat map algorithm to identify high-traffic zones in London, Ontario, integrated with Google Maps API for real-time visualization.
- Utilized: Python, Pandas, Streamlit, Git, Jira/Confluence.

### ContentCraft - Full-Stack Publishing Platform - <https://github.com/piran777/Full-Stack-Blogging-Platform>

London, ON

- Engineered a comprehensive content management system with user authentication, role-based access control, and dynamic post creation/editing capabilities
- Implemented secure user registration, JWT authentication, and database-driven commenting system with content tagging functionality
- Built responsive frontend interface and RESTful API backend, enabling seamless content publishing and user interaction
- Utilized: JavaScript, React.js, Node.js/Express, Authentication Middleware, Database Integration, RESTful APIs.

## Technology:

**Languages:** JavaScript, TypeScript, Python, Ruby, Java, C/C++, C#

**Frontend:** React.js, React Native, HTML/CSS, Material-UI, SCSS

**Backend:** Node.js/Express, Ruby on Rails 6/7, Spring Boot, RESTful APIs

**Databases:** MySQL, MongoDB, Redis

**DevOps & Cloud:** Docker, Kubernetes, AWS, GCP, GitLab

**Tools & Testing:** Git, Cucumber, Selenium, RSpec, Jest, Jira/Confluence, Wireshark, Mininet, Honeybadger, Okta

**Libraries:** Pandas, Streamlit, i18n, Redux