

Piran Aminullah

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Education

<b>Western University</b> <i>Bachelor's of Engineering Science, Software Engineering</i> <ul style="list-style-type: none"><li>Western Engineering Co-op/Internship Program</li><li><b>Course Work:</b> 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, AI 1, AI 2, Cloud Computing</li></ul>	London, ON Sept 2020 - Apr 2024
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Work Experience

<b>hyperPad</b> <i>Junior Software Engineer</i> <ul style="list-style-type: none"><li>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.</li><li>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</li><li>Designed and implemented Domain-Specific Language (DSL) processors for automated schema translations, significantly improving administrator efficiency and reducing manual configuration overhead</li><li>Developed comprehensive test suites using Cucumber, RSpec, and Jest, ensuring robust UI functionality and backend reliability in a regulated financial environment</li><li><b>Technologies Used:</b> Ruby on Rails 6/7, React.js, JavaScript, TypeScript, i18n, GitLab, Cucumber, RSpec, Jest, Material-UI, Docker, AWS, Redux, Redis</li></ul>	London, ON Jan 2025 - Current
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<b>hyperPad</b> <i>Software Developer Internship</i> <ul style="list-style-type: none"><li>Spearheaded backend infrastructure upgrades, migrating Ruby on Rails systems from version 6 to 7 while maintaining production stability for high-traffic financial applications</li><li>Enhanced and maintained backend systems using Ruby on Rails and Node.js, focusing on upgrading legacy codebases to improve scalability and performance</li><li>Delivered dynamic and responsive features for React.js and React Native applications, ensuring seamless user experiences across platforms</li><li>Gained foundational experience in full-stack development and client management, preparing for advanced financial platform contracting work</li></ul>	London, ON Sept 2024 - Jan 2025
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<b>HiCoder</b> <i>Software Engineer Internship</i> <ul style="list-style-type: none"><li>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.</li><li>Assisted in building and implementing RESTful APIs, facilitating efficient communication between server and client applications.</li><li>Diagnosed and resolved critical performance issues, leading to significant improvements in application responsiveness and user experience.</li><li><b>Technologies Used:</b> Node.js, Express.js, React.js, JavaScript, HTML, CSS, Material UI/ThemeUI</li></ul>	Canada (Remote) Jun 2024 - Sept 2024
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<b>PawmirPaintings LTD</b> <i>Web Developer Internship</i> <ul style="list-style-type: none"><li>Built the company's website through the integration of JavaScript, CSS, and HTML, leading to enhanced user interaction and navigation.</li><li>Implemented a robust contact information section using Node.js/Express, addressing user issues promptly.</li></ul>	London, ON Apr 2022 - Sept 2023
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Engineering Projects

<b>Intelligent Traffic Management System</b> - <a href="https://github.com/piran777/Capstone">https://github.com/piran777/Capstone</a> <ul style="list-style-type: none"><li>Built ML traffic prediction system using random forest classifier to accurately forecast intersection congestion patterns and optimize route planning.</li><li>Developed Python heat map algorithm to identify high-traffic zones in London, Ontario, integrated with Google Maps API for real-time visualization.</li><li>Utilized: Python, Pandas, Streamlit, Git, Jira/Confluence.</li></ul>	London, ON
<b>ContentCraft - Full-Stack Publishing Platform</b> - <a href="https://github.com/piran777/Full-Stack-Blogging-Platform">https://github.com/piran777/Full-Stack-Blogging-Platform</a> <ul style="list-style-type: none"><li>Engineered a comprehensive content management system with user authentication, role-based access control, and dynamic post creation/editing capabilities</li><li>Implemented secure user registration, JWT authentication, and database-driven commenting system with content tagging functionality</li><li>Built responsive frontend interface and RESTful API backend, enabling seamless content publishing and user interaction</li><li>Utilized: JavaScript, React.js, Node.js/Express, Authentication Middleware, Database Integration, RESTful APIs.</li></ul>	London, ON
<b>NetSim - Network Protocol Analysis &amp; Simulation</b> - <a href="https://github.com/piran777/UDP-TCP-Networking">https://github.com/piran777/UDP-TCP-Networking</a> <ul style="list-style-type: none"><li>Designed and implemented a multi-host network topology using Mininet with three hosts and one switch for comprehensive protocol testing</li><li>Developed UDP/TCP communication protocols and performed deep packet analysis using Wireshark for network optimization</li><li>Created Python-based network simulation tools to analyze traffic patterns and protocol efficiency in controlled environments</li><li>Utilized: Python, Wireshark, Mininet, Network Programming, Protocol Analysis, Systems Programming</li></ul>	London, ON
<b>Technology:</b> JavaScript, Typescript, ReactJS, NodeJS/Express, Ruby on Rails 7, SCSS, MaterialUI, Cucumber/Selenium Testing, webpack, esbuild, Xcode, Java, HTML/CSS, MySQL, MongoDB, Git, AWS, Jira/Confluence, Docker, Kuberbetes, Google Cloud Platform (GCP), Python, Pandas, C/C++, C#, OpenGL, Linux.	