Kevin Atapattu

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EDUCATION

Carleton University — Ottawa, ON
Bachelor of Science in Computer Science (Co-op) — *2022 - 2027*
- **Relevant Coursework**: Data Structures & Algorithms, Calculus, Linear Algebra, Artificial Intelligence, Operating Systems, Software Engineering, Machine Learning
- **Extra Curricular**: Powerlifting Team - President/Athlete

EXPERIENCE

IBM — Sep. 2025 – Present
Software Engineer Intern | Ruby on Rails, Docker, Kubernetes, PostgreSQL, JavaScript — *Toronto, ON*
- Contributed to the Skills Network team as a **full-stack developer** in an **Agile Scrum** environment.
- Engineered multi-tenant content management system using **MySQL** views and **JSON** storage, enabling **50+** clients to customize learning content independently without affecting global enrollment data
- Developed a learning-content type for learners using **Rails** and **TypeScript**, improving UX for **10M+** users.
- Utilized **Jenkins** for **CI/CD pipelines** and performed logger testing to ensure **deployment reliability**.
- Refactored front-end templates by **migrating code** from Liquid to ERB, simplifying maintainability of codebase.

Anvil — Jan. 2025 – May 2025
Software Engineer Intern | Python, Django, DRF, PostgreSQL, Elasticsearch — *Ottawa, ON*
- Implemented a dedicated **API validation class** that rejects unauthorized extra fields, enhancing data integrity.
- Developed a **data import script** in Python reducing load times by **97.5%,** accelerating UI testing and iteration.
- Utilized **Python Debugger** and **Docker logs** to debug API endpoints to ensure reliable backend performance.
- Wrote unit tests with **PyTest** to validate API functionality, prevent regressions, and achieved **80%** code coverage.

Okami Productions — Mar. 2020 – Jun. 2022
Frontend Developer & Founder — *Toronto, ON*
- Developed a dynamic portfolio website using **React**, **JavaScript**, **HTML**, and **CSS** to display video projects.
- Built interactive **UI elements**, improving client engagement and **generating $40k+ in revenue**.

PROJECTS

SysOptix | *Python, PyTorch, Flask, MongoDB, Numpy, Chart.js, D3.js*
- Engineered an **end-to-end system** that continuously collects **real-time system metrics** (CPU, memory, GPU) and stores them in **MongoDB**, enabling comprehensive performance monitoring.
- Developed an **LSTM neural network** in **PyTorch** to forecast bottlenecks, triggering threshold-based alerts.

SmartCoach | *Python, Pickle*
- Led a team of engineers to develop a **reinforment learning** agent to **create** & **optimize** a powerlifting program.
- Leveraged **JSON and pickle** serialization for persistent state management, allowing continuous learning.

iLift | *Swift, SwiftUI, Supabase*
- Engineered a Swift app tailored for powerlifters to optimize workouts with features like plate conversion and logs.
- Built secure user auth and real-time data syncing with Supabase via authenticated RESTful API calls.

SKILLS & INTERESTS

Languages: Python, Java, C/C++, Ruby, TypeScript, JavaScript, Swift, HTML/CSS
Libraries & Frameworks: React, FastAPI, Django, Express, Rails, Node.js, Flask, Pandas, Plotly, PyTorch
Developer Tools: Linux, Git, Docker, Jenkins, Kubernetes, Claude Code, PyTest
Cloud & Databases: AWS, Supabase, SQL (PostgreSQL, MySQL), NoSQL (MongoDB)
Concepts: Fullstack Development, Networking, Infrastructure Engineering, DevOps, Automation, LLMs
Interests: Powerlifting, PC Building, Competitive eSports, Graphic Design, Videography, Dogs