

Martin Zukowski

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TECHNICAL SKILLS

Programming Languages: Go, Python, C/C++, Assembly, JavaScript/TypeScript, HTML/CSS

Frameworks: ReactJS, Tailwind, ThreeJS, Springboot, Bootstrap, Express, Next.js

Others: Git, MongoDB, SQL, Figma, Render, Docker, Kubernetes, AWS (EC2, S3), CI/CD, REST API, Vercel, Node.js, LaTeX

WORK EXPERIENCE

Software Engineer Intern | HYLAND — REMOTE (WESTLAKE, OH) **July 2025 - November 2025**

- Developed backend microservices in Python supporting internal AI-driven automation tools running in isolated Docker environments to improve engineering workflow automation.
- Implemented monitoring and logging pipelines processing 100k+ execution events per day to support debugging and performance analysis of internal development utilities.
- Reduced failure rates by 18% by diagnosing concurrency issues and improving retry logic for external API integrations used by internal tools.
- Built scripts enabling automation systems to interact with web services and APIs across 15+ engineering workflows.

Junior Software Developer | JELLYFISH INC — REMOTE (TOKYO, JAPAN) **January 2025 - May 2025**

- Built and optimized REST APIs using Python and Django for internal automation and customer-facing services.
- Refactored legacy codebases to improve maintainability and performance.
- Implemented automated testing pipelines using pytest and GitHub Actions.
- Investigated and resolved software defects reported by QA and users.

TECHNICAL PROJECTS

Machine Learning and Neural Network Models | CMPT 310, SFU **April 2025**

- Built and trained supervised models to solve digit & binary classification, regression, and language identification.
- Implemented Naive Bayes with Laplace smoothing, Perceptron, and custom neural networks (FFNN and RNN) using autograd, achieving 97.5%+ and 85%+ accuracy on MNIST and language tasks respectively.
- Tuned hyperparameters (learning rate, layer size, activation) and applied gradient-based optimization with backpropagation for all models.

Full Stack Website | Akwraps.ca **August 2024**

- Developed a web service and database used by over 500 customers, increasing website impressions by 250%.
- Implemented Thymeleaf for server-side rendering, enhancing deployment efficiency by 30% using Docker.
- Utilized ThreeJS to create interactive car models and wraps to enhance user experience.

VOLUNTEER EXPERIENCE

Member

Competitive Programming Club | Burnaby, SFU **September 2024 - Present**

- Solved weekly algorithm and data structures challenges, improving speed and accuracy with DP, graphs, and greedy methods.
- Practiced competitive programming on LeetCode, strengthening problem-solving efficiency and pattern recognition.

EDUCATION

Simon Fraser University | Burnaby, BC **September 2022 - Present**

BSc. Degree Computer Science