

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/Azure, CI/CD, REST API, RAG/MCP, Node.js, LaTeX

WORK EXPERIENCE

ML Engineer Intern | THOUGHTSWIN SYSTEMS — SURREY, BC

June 2026 - Present

- Designed and integrated APIs, including chat, query routing, and deployment endpoints for Amplifi (RAG platform).
- Built data ingestion pipelines and tuned vector search and ML models to improve retrieval accuracy and relevance.
- Developed tools for the agent layer (Sharpi), including web search, document/image/audio parsing, and code interpretation capabilities.
- Built and deployed applications for internal proof-of-concept demos, and developed unit testing frameworks to validate model and tool reliability.

Systems Support Solutions Analyst | ARITZIA — DELTA, BC

November 2025 - June 2026

- Diagnosed operational/systems issues and configured hardware at an automated distribution center supporting daily warehouse operations.

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.
- 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.
- Implemented automated testing pipelines using pytest and GitHub Actions.

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 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.

VOLUNTEER EXPERIENCE

Software Developer

SFU Robot Soccer Club | Burnaby, SFU

September 2024 - Present

EDUCATION

Simon Fraser University | Burnaby, BC

September 2022 - Present

BSc. Degree Computer Science