

Mike Wang

hello@mikemwang.com | linkedin.com/in/mikemwang | Greater Toronto Area

Software engineer with interests and experience running the gamut from microcontrollers and hardware to cloud and AI; from small startups to established companies. Building primarily with Python and Linux.

EDUCATION

Massachusetts Institute of Technology

Master of Engineering in Electrical Engineering and Computer Science

Bachelor of Science in Electrical Engineering and Computer Science

Cambridge, MA

09/2019 – 09/2020

09/2015 – 06/2019

PROJECTS

Non-professional Tinkering

05/2025 – Present

- Taking some time off from working to travel, visit family and friends, and finish up longstanding personal coding projects. Visit mikemwang.com to view the full portfolio.

EXPERIENCE

Akamai Technologies

Senior Software Engineer II

Senior Software Engineer

New York, NY

03/2024 – 04/2025

08/2022 – 03/2024

- Designed and implemented management tool for 10,000+ compute instances.
Tools: Python, Celery, Salt, basic Linux system administration
 - Worked with SREs and other teams to understand existing manual processes and appropriate automations.
 - Developed concurrency model to parallelize tasks where possible, achieved up to 5x speed-up of common operations.
 - Part of company-wide cloud migration effort that reduced cloud costs by 40%.
- Developed internal AI chat assistant prototype.
Tools: Python, Langchain, Langgraph, Langfuse
 - Researched existing AI system design patterns to leverage pre-built software and reduce iteration time.
 - Optimized software architecture to improve performance and reduce complexity.
- Continuously gathered requirements from stakeholders, developed new features, provided support, and solicited feedback.
- Mentored junior engineers through code reviews and pair programming.
- Created team onboarding materials, garnered 1300+ page views in 2.5 years.

OPT Industries

Mechatronics Engineer

Medford, MA

11/2020 – 07/2022

- Created and managed mission-critical Python and C++ code for the entire fleet of custom-built 3D printers.
Tools: Python, Robot Operating System (ROS), C++, Arduino, Raspberry Pi
- Worked with design, production, and mechanical engineering teams to ideate and prioritize features and bug fixes.
 - Critical workflows were sped-up from over 30 minutes to a few seconds. Patent pending for the algorithms developed.
- Worked closely with vendors to evaluate new components and sensors, and to produce custom software drivers.
- Improved print quality, print speed, and machine reliability. In some cases, product pass rate increased from under 50% to over 90% and throughput was more than tripled.

MIT Software Design Group

Research Assistant

Cambridge, MA

09/2019 – 08/2020

- Investigated novel safety-assurance algorithms for self-driving cars, deployed code to physical autonomous vehicle simulator to validate results.
Tools: Python, Robot Operating System

PATENTS

- **Certified control for self-driving cars.** Daniel Jackson, Jonathan Decastro, Soon Ho Kong, Nikos Arechiga Gonzalez, Dimitrios Koutentakis, Feng Ping Angela Leong, Mike Meichang Wang, and Xin Zhang. United States Patent #11745732. September 2023.