

Michelle Chang

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urverkmi.github.io/me/

I'm a **tech-driven designer** building fun, user-centered experiences. Ask me about mixed-reality, privacy-aware intelligence, and even satellite deployment simulations!

research

Aalto University | *Ambient Intelligence Group*

01.2026 - Present

Multi-user RFID-based Gesture Recognition with Federated Learning

experience

Intuit | *Backend Software Engineer II*

2021 - 2024

Workflow Automation with Applied AI

Built an AI-driven integration test pipeline that parsed requirement specs into executable Playwright simulations, ensuring end-to-end validation with penny-level accuracy.

QuickBooks Online UK

Enabled small businesses to make data-driven financial decisions through reliable online pay-slip service.

Resolved caching inefficiencies and improved system performance by 40%.

Intuit | *Software Engineer Intern*

Summer 2020

Dynamic Configuration Management

Developed a Spring configuration management service library to support dynamic runtime config updates, improving reliability via local cache fallback.

education

Aalto University

2025 - 2027

KTH Royal Institute of Technology

M.Sc. in Human-Computer Interaction Design (joint program)

Carnegie Mellon University

2017 - 2021

B.Sc. in Electrical and Computer Engineering

Minor in Game Design

Graduated with University Honors

bachelor thesis

ConFFTi | *FPGA-based music synthesizer (poster)*

Spring 2021

Engineered real-time audio pipelines that generate and process waveforms through digital oscillators and mixers.

Validated against industry synthesizer standards, achieving targets for latency, distortion, programmability, and 44.1 kHz stereo output.

skills

Software Development

Python, Java, C++, C, SQL, TypeScript, Unity, C#, HTML/CSS

Product Design

Rapid Prototyping, Interaction Design, Usability Testing, Collaborative Evaluation, Figma, FigJam, Miro

DevOps / Tooling

Splunk, Jenkins, Docker, Kubernetes, AWS, Postgres, Jira, CI/CD