

SOPHIE MI

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SKILLS & TECHNOLOGIES

Languages: Python, JavaScript, TypeScript, C++, C, C#, Rust, Java | **Databases:** MySQL, PostgreSQL | **Cloud:** AWS | **Backend:** .NET, Node.js, REST APIs | **Frontend:** React, HTML/CSS | **Mobile & App Development:** Android Studio (Java/Kotlin), Flutter (Dart), Firebase | **AI & Machine Learning:** PyTorch, scikit-learn, pandas, NumPy, Keras | **Systems & Tools:** Git, Docker, Github Actions, Bash/Shell scripting

WORK EXPERIENCE

System Software Engineer, Intel Flex

July 2023 - August 2025

IT Foundry Services

- Full-Stack development (UI: React, TypeScript | API: REST APIs, .NET) for internal and external applications built on a distributed microservices architecture (30+ services), enabling scalable, secure, and high-performance applications to be used by Intel Foundry customers and suppliers.
- Spearheaded development of an internal admin portal for secure document management, from concept to production deployment.

IT Scan Framework

- SDK (Python) and backend (JavaScript) development of internal scan tools to ensure the security of Intel Software Products before release, while meeting Software Bill of Materials (SBOM) compliance requirements.
- Enhanced error handling features to enable user self-diagnosis and resolution, reducing the workload of support teams.
- Increased unit test coverage for SDK and backend to exceed 90% coverage, leading to more robust software.

Quartus® Prime Quality Improvement

- Resolved critical timing issues and delivered feature enhancements (C++) on the Timing Analyzer Tool included in the Quartus® Prime FPGA Design Software

System Software Engineer Intern, Intel Flex

June 2022 - September 2022

AI Workload Services Framework

- Completed performance analysis of AI workloads on Intel 14th Gen Xeon (Sapphire Rapids) architecture
- Enhanced AI workload efficiency through hyperparameter tuning and iterative testing
- Drove measurable performance gains in AI systems through targeted workload optimization and tuning

PROJECTS

BRaINlab Grip Symmetry Measurement App & Website

- Developed and launched a cross-platform website (HTML/CSS, JavaScript) and mobile app (iOS, Android) to perform grip strength assessments for the UC Davis Biomechanics, Rehabilitation, and Integrative Neuroscience (BRaIN) lab, successfully publishing to the App Store and Google Play.
- Created REST APIs to capture and analyze sensor data from a Bluetooth hand dynamometer.
- Designed a website admin interface for approved administrators to register new clinicians and export data.

EDUCATION

University of California, Davis

June 2023

Bachelor of Science, Computer Science and Engineering

Minor, Electrical Engineering

CERTIFICATIONS

AWS Certified AI Practitioner, AWS

November 2024

AWS Certified Cloud Practitioner, AWS

December 2023