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, Angular, Vue, GraphQL, 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, GraphQL | 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**