

# Lucia Wang

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## SUMMARY

Full-stack Mid-level Software Developer specializing in end-to-end development, adept in the latest cloud and web technologies, and interested in the convergence of computer science and neuroscience.

## SKILLS

- **Programming Languages:** Kotlin, Java, Python, JavaScript, Bash
- **Frontend Technologies:** React, Angular, TypeScript
- **Backend Frameworks:** Spring Boot, Spring Batch, RESTful APIs, Node.js
- **DevOps Tools:** Git, Maven, Kubernetes, Docker, Linux, CI/CD Pipelines
- **Database Management:** MongoDB, PostgreSQL, Oracle Database
- **Project Management:** Agile/Scrum, GHA

## TECHNICAL EXPERIENCE

### Software Engineer II

*American Express*

SEPT 2024 — Present

*Phoenix, AZ*

**Technologies:** React, Kotlin, REST APIs, MongoDB, GHA, Docker, Git

- Designed and delivered full-stack features for an enterprise case management platform supporting fraud and AML investigations across high-risk financial transactions.
- Built modular, reusable React components and complex data-driven workflows to improve investigator efficiency and reduce manual case processing time.
- Developed Kotlin-based microservices integrating internal risk systems and third-party data providers to enable real-time transaction evaluation.
- Implemented secure API contracts and data validation layers to meet regulatory compliance requirements.
- Collaborated cross-functionally with product, compliance, and risk teams to translate regulatory requirements into scalable technical solutions.

### Software Engineer

*General Motors*

JUNE 2021 — OCT 2023

*Chandler, AZ*

**Technologies:** Java, Spring Boot, Spring Batch, Angular, Kubernetes, CI/CD, Bash, Node.js, SQL, Git, Maven

- Progressed from an Entry-Level to Mid-Level Software Developer within 1.5 years, demonstrating technical proficiency and a robust work ethic.
- Contributed to the full-cycle development of an inventory management system from ideation to production deployment following Agile Methodologies.
- Significantly optimized data ETL processes for a backorders job, reducing processing time from 90 minutes to 5 minutes while maintaining data integrity.
- Implemented CI/CD pipelines in Azure to automate artifact deployment and configured Grafana for real-time monitoring, thus enhancing operational reliability and system performance.
- Migrated legacy applications to modern Angular interfaces, improving UX and meeting application compliance standards.

### Software Engineer Intern

*CornellCookson LLC*

MAY 2019 — AUG 2019

*Goodyear, AZ*

- Updated firmware using C code to incorporate an upper photo-eye on industrial-grade doors, resulting in improved precision of the motor rotation calculations.
- Conducted comprehensive prototype testing to diagnose failures and propose firmware solutions

### Undergraduate Research Assistant

*University of Arizona*

JAN 2019 — MAY 2021

*Tucson, AZ*

- Analyzed research papers from global computer science conferences to create a comprehensive catalog of research artifacts to facilitate the reproducibility and extension of public research in the field.

## EDUCATION

### University of Arizona

AUG 2017 — MAY 2021

- Bachelor of Science - Computer Science
- Bachelor of Science - Neuroscience with an Emphasis in Computation
- National Merit Finalist (Full-Ride Scholarship)