

JACOB D. MEN

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TECHNICAL SKILLS

Languages	Java, C, C++, Python, TypeScript, JavaScript, SQL, Rust, HTML, CSS
Technologies	Flask, Pandas, Docker, Guice, AWS (CDK, Lambda, RDS, EC2, DynamoDB)

WORK EXPERIENCE

Amazon	Sunnyvale, CA
Software Development Engineer	August 2022 - Present

- Created a high performance message processing system between Amazon and third parties to synchronize device updates in real time using Java, SQS, and SNS, resulting in faster Alexa interactions
- Led security certification for collaboration between Alexa and Ring by auditing code and developing standards for encryption use, DDOS prevention, and logging to protect customer data
- Produced operations and maintenance plan to support launch of new Fire TV remote, ensuring availability and low latency of location search feature

Software Development Engineering Intern	May 2021 - August 2021
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- Designed and implemented a new Alexa service using Java to reduce customer order pickup times to under two minutes in Whole Foods stores nationwide
- Created unit and integration tests to confirm proper operation of AWS Fargate service using Java, JUnit, Guice, and Mockito
- Collaborated with engineers and product managers to define scopes and uses of customer order APIs to ensure encryption and privacy of user data

Tesla	Fremont, CA & Elgin, IL
Controls Programming Intern	May 2020 - August 2020

- Programmed high speed machinery to assemble Model Y electric motors using industrial program controllers and sequential function charts
- Implemented an alarm and safety system for an assembly line allowing for fast responses to malfunctions using Ignition SCADA system
- Designed a responsive UI for tracking wireless hardware connectivity issues using HTML, CSS, Python, and SQL resulting in quick feedback and easy debugging

EDUCATION

University of Illinois at Urbana-Champaign	GPA: 4.00 / 4.00
Masters in Computer Science	August 2022 - Present

University of Illinois at Urbana-Champaign	GPA: 3.84 / 4.00
Bachelor of Science in Mathematics and Computer Science	August 2019 - May 2022

PROJECTS

IoT Systems Research Group Backend Team Lead	May 2021 - August 2022
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- Led a team of developers to create an API service to support simulating large IoT systems using TypeScript, Express, and Jest, resulting in adoption by large (100+ students) courses for projects
- Introduced use of Docker to containerize API backend and dependencies for easier deployments and maintenance