JACOB D. MEN

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EDUCATION

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

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

WORK EXPERIENCE

Amazon　　　　　　　　　　　　　　　　　　　　　　　　　May 2021 - August 2021
Software Development Engineering Intern　　　　　　　　　　　　　Sunnyvale, CA

- Designed and implemented a new Alexa service using Java to bring customer order pickup times down to less than two minutes in Whole Foods stores across the country
- Created unit and integration tests to confirm proper operation of AWS Fargate service using Java, JUnit, Guice, and Mockito
- Worked with different teams to define scopes and uses of APIs to ensure encryption and privacy of customer data

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

- Programmed a test stand to simulate various programming issues in a mini assembly line to be used when evaluating future candidates for similar roles using Ladder Logic
- Implemented an alarm and safety system for an assembly line allowing for fast responses to malfunctions and automatic stops for errors using Ladder Logic
- Designed a responsive UI for tracking wireless hardware connectivity issues using HTML, CSS, Python, and SQL resulting in quick feedback and easy debugging

TECHNICAL SKILLS

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

PROJECTS

Terminal Chat App　　　　　　　　　　　　　　　　　　　　January 2021 - May 2021

- Created terminal-based chat app that allowed clients anywhere to communicate and send messages using Rust
- Used message-io library to create a fast and concurrent server to support many simultaneous connections and requests

Team Up　　　　　　　　　　　　　　　　　　　　　　September 2019 - December 2019

- Created backend framework for web app using Python and Flask, allowing for a dynamic interface that updated for users instantly
- Designed and hosted a SQL database on AWS to hold user and project information that allowed for immediate communication with web app