JACOB D. MEN

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EDUCATION

University of Illinois at Urbana-Champaign   **May 2022**
Bachelor of Science in Math & Computer Science   GPA: 3.94 / 4.00
Minor in Applied Statistics

WORK EXPERIENCE

Amazon   **May 2021–August 2021**
Software Development Engineering Intern   Sunnyvale, CA
- Designed and implemented a new Alexa service to bring customer order pickup times down to less than two minutes in Whole Foods stores across the country using Java
- 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 resulting in quick feedback and easy debugging using HTML, CSS, Python, and SQL

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

TECHNICAL SKILLS

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

EXTRACURRICULARS

IoT Systems Research Group Developer   **May 2021-Present**
- Led team effort to containerize key dependencies including a MongoDB instance using Docker

Software Design Studio (CS 126) Course Assistant   **May 2020-May 2021**
- Ran a weekly code review session to give students feedback on style, readability, and organization
- Designed and wrote documentation for an assignment to be given to students