Jay Tayade

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EDUCATION

UNIVERSITY OF MICHIGAN

BSE in Computer Science
Expected April 2019 | Ann Arbor, MI
GPA: 3.6 / 4.0

LINKS

Github:// **koolguru**
Linkedin:// **jaytayade**
Devpost:// **JayTayade**

COURSEWORK

UNDERGRADUATE

Web Systems
Operating Systems
Artificial Intelligence
Computer Security
Data Structures and Algorithms
Discrete Math
Foundations of Theoretical Computer Science
Computer Organization
Sustainable Engineering

SKILLS

PROGRAMMING

Primary Languages:
Java • C++ • Python • C#
Project Experience:
C • JavaScript • PHP • Groovy • HTML • CSS • Ruby

TECHNOLOGIES

Flask • Springboot • React • MongoDB • Redis • Firebase • Ruby on Rails • Node.js

TOOLS

Git • Subversion • Docker • Kubernetes • JenkinsCI

EXPERIENCE

FACEBOOK | Software Engineering Intern (Incoming)

May 2018 – August 2018 | Menlo Park, CA

- Interning with the Instagram Mobile team

NORDSTROM | Software Engineering Intern

May 2017 – Aug 2017 | Seattle, WA

- Developed and deployed **Java** and **Node.js** libraries/APIs that implemented simplified asynchronous interaction with **Redis** and **Apache Kafka** based **message queues** for messaging between applications in a **service oriented architecture**.
- Integrated **logging/alerting** into the library to implement best practices behavior and developed a **CI/CD** release pipeline using **Jenkins CI** to ensure the library was ready for production.
- Assisted five development teams in migrating to the library and worked with hundreds of company developers to raise awareness of the library

PRINCIPAL FINANCIAL GROUP | Software Engineering Intern

May 2016 – August 2016 | Des Moines, IA

- Utilized **React Native** to develop a mobile application to allow sales team members to simulate use cases for Principal services
- Developed a **Java/Spring** application designed to track, report and validate over 200 daily Java application deployments to IBM WebSphere environments. Utilized **React** to design a responsive web frontend for the application
- Utilized **ASP.NET** and the **Cherwell API** to develop a web based service management tool for developers

PROJECTS

MICHIGAN AUTONOMOUS AERIAL VEHICLES | Software Team Member

Jan 2016 – Present | Ann Arbor, MI

MAAV is a student led engineering design team focused on building an autonomous drone for competition. We compete in the annual International Aerial Robotics Competition. As a member of the team, I worked to develop a **C++** and **Python** based physics simulation to test and develop the drone's computer vision capabilities. I utilized **OpenGL** and **Bullet Physics** to visualize and model the quadcopter in 3D space. Additionally, I designed an algorithm to calibrate onboard **inertial measurement units** and **gyroscopes**.

SMART SALES | Nordstrom Hackathon Project

June 2017 | Seattle, WA

Smart Sales allows customers to indicate items of potential interest and subscribe to notifications for discounts on those items. The service uses collected data to generate sales that discount the fewest number of items while getting the maximum interest. The project used a **Python/Flask** backend, a **MongoDB** database and **React** frontend.

SMART MAILBOX | MHacks 2017

March 2017 | Ann Arbor, MI

The smart mailbox project uses a ultrasonic sensor and a wifi-enabled arduino to allow users to control and recieve mail delivery updates over text. The project used a **Python/Flask** backend to analyze sensor data, a **Firebase** database to store states from the embedded device and a **Twilio** service to send and receive text updates.