

Jay Tayade

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University of Michigan

- BSE, Computer Science, GPA: 3.6/4.0

Ann Arbor, MI

Sept. 2015 – May 2019

EXPERIENCE

Facebook | Software Engineering Intern (incoming)

Menlo Park, CA

Summer 2018

Nordstrom | Software Engineering Intern

Seattle, WA

Summer 2017

- 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 to spread awareness of the library to hundreds of developers across the Nordstrom organization.

Principal Financial Group | Software Development Intern

Des Moines, IA

Summer 2016

- 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

Michigan Autonomous Aerial Vehicles Design Team | Software Engineer

Ann Arbor, MI

Sept. 2015- Present

- Worked on the controls team to develop software for various embedded systems on the vehicle
- Worked to develop a **C++** and **Python** based physics simulation to test and develop the drone's computer vision capabilities. Utilized **OpenGL** and **Bullet Physics** to visualize and model the quadcopter in 3D space.
- Designed an algorithm to calibrate onboard **inertial measurement units** and **gyroscopes**.

PROJECTS

SmartSales: A service that allows users to select Nordstrom items they are interested in and then uses that data to generate Nordstrom sales

- Developed at the Nordstrom company hackathon, designed a **python/flask** backend to interact with a **Redis** database and developed customer front-end and internal dashboards with **React.js**.

TECHNICAL SKILLS

- Knowledgeable in C++, C#, Java, Ruby, Python, HTML, and JavaScript.
- Experienced with front-end frameworks: ReactJS and Angular.JS
- Experienced with web databases: MongoDB, Redis and Firebase
- Experienced with web frameworks: Ruby on Rails, Node.js, SpringBoot
- Experience with Git, Subversion, Docker, Kubernetes, Jenkins CI

SELECTED COURSEWORK

- EECS 281: Data Structures and Algorithms, 2016
- EECS 280: Programming and Data Structures, 2016
- EECS 203: Discrete Mathematics, 2016
- EECS 388: Computer Security, 2018
- EECS 370: Intro to Computer Organization, 2017
- EECS 376: Foundations of Computer Science, 2017
- EECS 482: Operating Systems, 2017
- EECS 485: Web Systems, 2018