Jay Tayade

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EDUCATION

University of Michigan **Ann Arbor, MI**
- BSE, Computer Science, GPA: 3.3/4.0 *Sept. 2015 – May 2019*

WORK EXPERIENCE

Nordstrom | Software Engineering Intern **Seattle, WA**
May 2017 – Aug. 2017
- Developed a service that used customer interest data to suggest potential sales that efficiently targeted a subset of a given demographic while minimizing the loss to Nordstrom. Utilized JavaScript as a frontend, Python as a backend and Firebase as a database.
- Designed a Java and .NET api to implement a message oriented middleware system while implementing a backend Redis database to facilitate fast transport of messages between services.
- Exposed to principles of both full-stack software development and API design.

Principal Financial Group | Software Development Intern **Des Moines, IA**
May 2016 – Aug. 2016
- Developed a Java Application to track, report and validate over 200 daily Java application deployments to IBM WebSphere environments.
- Worked with a team of 10 interns to develop a new cloud-based service management platform that integrated the Cherwell Service Management software.
- Worked with a team of 4 interns to develop an IPad app designed for sales personnel to demonstrate the Principal's digital customer experience

Terex Corporation | High School Engineering Intern **Redmond, WA**
- Designed a solar powered light tower capable of running without human interaction for one week *Sept. 2014 - June 2015*
- Performed calculations to determine the components needed to produce an acceptable power and light intensity output
- Designed and implemented working model circuits to present to company electrical engineers
- Presented design to executives of Genie Industries and parent company Terex Corporation

ACTIVITIES

Michigan Autonomous Aerial Vehicles | Software Engineer **Ann Arbor, MI**
- Worked on the controls team to develop software for various embedded systems on the vehicle *Sept. 2015- Present*
- Working to develop a C++ and Python based simulation to test and develop the drone's computer vision capabilities.
- Designed an algorithm to calibrate onboard inertial measurement units and gyroscopes
- Participated in regular flight testing and helped to educate new members on proper flight testing technique and safety.

TECHNICAL SKILLS
- Knowledgeable in C++, C#, Java, Ruby, Python, HTML, and JavaScript.
- Experienced with frameworks such as ReactJS, Ruby on Rails and Node.js
- Experienced with web databases such as MongoDB, Redis and Firebase
- Proficient in scripting using Bash and PowerShell.
- Experience with mobile development for Android and IOS platforms

SELECTED COURSEWORK
- EECS 281: Data Structures and Algorithms, 2016
- EECS 280: Programming and Data Structures, 2016
- EECS 203: Discrete Mathematics, 2016
- EECS 285: The Java Programming Language, 2014
- EECS 370: Intro to Computer Organization, 2017
- EECS 376: Foundations of Computer Science, 2017
- EECS 482: Operating Systems, 2017