KARTIKEYA KANDULA
SOFTWARE ENGINEER

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EDUCATION

University of Michigan
Computer Science Engineering 2019
GPA: 3.75
University Honors (every semester)
Dean's List (every semester)

EMPLOYMENT

JPMORGAN CHASE
Incoming Technology Analyst Intern
Chicago, IL
June 2018 to Aug. 2018

Worked in an Agile environment to develop a Java Spring web application that implements a GraphQL API to consolidate data from existing microservices and systems while using MyBatis to couple objects with stored procedures and SQL statements. Conducted user interviews to develop wireframes using Balsamiq for the frontend design. Also utilized Elasticsearch to create a search framework for the backend of the application.

DELTA DENTAL OF MICHIGAN
Lead Programming Intern
Okemos, MI
May 2017 to Aug. 2017

Led a team of seven programming interns as we worked on the company's Business Rules Integrated Development Environment.
Implemented a single sign-on process using LDAP for the claims processing engine.
Added critical features to the rules editor that had been requested by business end-users such as the ability for clients to view and edit rules from multiple rule stores simultaneously.
Converted the client desktop application over from Swing to JavaFX
Added the ability for users to dynamically change their permissions while within the application

PRETIUM ANALYTICS
Part-Time Programmer
Lansing, MI
July 2016 to Current

Worked on Business Analytics Framework that incorporates analytic strategy, implementation planning, implementation, and operation. It is a flexible and technology agnostic framework.
Built company website Django.

DELTA DENTAL OF MICHIGAN
Programming Intern
Okemos, MI
June 2016 to Aug. 2016

Worked on the Business Rules Integrated Development Environment.
Located missing dependencies and fixed sources of error in the code base caused by upgrading to the current version of XStream.
Moved the installation flow away from DeployDirector, a tool that was no longer supported, to the more flexible Launch4J.
Implemented a process to refresh the JTree whenever a change is made to an open rule store in order to keep the JTree in sync with the server.

ACTIVITIES

MPowered Entrepreneurship
Tech Team Director
Moved the organization website to AWS and Wordpress and reestablished the tech team to be an outward facing organization that provides technical services to local startups and organizations in Ann Arbor

Treble (Integrated Music Player)
Swift Application Development
Developing an iOS application that will allow users to create and listen to music playlists across the music streaming services using Apple's MusicKit, Spotify iOS SDK, and the SoundCloud API.

Capital One Software Engineering Summit 1st Place
Hackathon
Developed a prototype of a web application, Kickback, that consolidates a user's financials and uses their previous transactions to recommend deals deals for them using a collaborative filtering system

EECS 203
Grader
Grader for a discrete mathematics course that is required for all students within the Electrical Engineering and Computer Science Department.

UM::Autonomy
AI Team
Developed a path planning algorithm for the U:M Autonomy roboboat to use in the "Find the Path" segment of the AUVSI Roboboat Competition last year. Placed top ten in the nation while competing against teams of graduate students and professionals. This year I am in charge of developing algorithms to detect numbers from images, triangulate the location of pingers, and identify whether an object is a buoy, dock, or some other object. Also worked to develop a full boat simulation in an existing game engine that can simulate our boat movement and sensor data in a virtual world.

JP Morgan and Chase Code for Good
Hackathon
Developed prototype social media application for use by underprivileged Chicago Public Schools middle schoolers to use to display achievements and keep parents updated on school events.
Developed the application using Bootstrap, JQuery, Python Flask, and MySQL

SKILLS

LANGUAGES: Java, C++, Python, Javascript, Matlab, R, Swift, HTML/CSS
FRAMEWORKS / TECHNOLOGIES: React, Angular, Flask, Django, Node.js, D3.js
TOOLS: Bash, Git, Balsamiq, Confluence, XCode, IntelliJ, Sublime
DESIGN: Illustrator, InDesign, Photoshop, Lightroom