

KARTIKEYAKANDULA

Full-Stack Software Engineer

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Education

University of Michigan

2019 - 2020 // Ann Arbor, MI
M.S.E in Computer Science Eng.

2016 - 2019 // Ann Arbor, MI
B.S.E in Computer Science Eng.
Summa Cum Laude, 3.9 GPA
James B. Angell Scholar

Skills

Languages

C++, Python, Javascript, Matlab,
Java, HTML/CSS, SQL

Technologies

AWS, Neaural Nets, React, Angular,
Node.js, D3.js, Flask, Java Spring

Tools

Bash, Git, Xcode, Sublime, IntelliJ

Design

Illustrator, Photoshop, InDesign,
After Effects, Xd, Balsamiq

Interactive Storytelling

Data visualization

Computer Vision

OpenCV, Tesseract

Projects

Comparison of Neural Networks for Cancer

Compared performace of various neural network architectures on the identification of metastatic cancer within images.

SFPD Data Visualization

Developed web app visualizing publicly available dataset from the San Francisco Police Department using D3.js.

Experience

Software Development Intern @ Microsoft

May 2019 - August 2019 // Seattle, WA

- ▶ Worked on Excel for OSX as part of Experiences and Devices group
- ▶ Delivered new file recovery process that led to dramatic drop in rate of force quit
- ▶ Converted file recovery dialog from modal window to message bar within Excel

Technology Analyst Intern @ JPMorgan Chase

June 2018 - August 2018 // Chicago, IL

- ▶ Engineered Java Spring web application, implemented GraphQL API to consolidate data from existing microservices, systems
- ▶ Utilized MyBatis to couple objects with stored procedures and SQL statements
- ▶ Conducted user interviews to develop Balsamiq wireframes for frontend design
- ▶ Employed Elasticsearch to create search framework for backend of application

Programming Intern @ Delta Dental

May 2017 - August 2017 // Okemos, MI

- ▶ Supervised work on Business Rules Integrated Development Environment
- ▶ Implemented single sign-on process using LDAP for claims processing engine
- ▶ Added ability for users to dynamically change permissions
- ▶ Developed feature to view, edit rules from multiple rule stores simultaneously
- ▶ Moved client desktop application from Swing to JavaFX

Activities

Research Assistant @ U-M Security Lab

August 2018 - Present // Ann Arbor, MI

- ▶ Led project developing attack on voting systems used in 2016 presidential elections, "UnclearBallot: Automated Image Manipulation" accepted for publication to E-Vote-ID conference under mentorship of Professor J. Alex Halderman
- ▶ Conducting research into computer security and privacy, with emphasis on problems impacting society and public policy

Byte Labs Director @ MPowered Entrepreneurship

March 2018 - April 2019 // Ann Arbor, MI

- ▶ Managed the technology segment of MPowered Entrepreneurship
- ▶ Established consulting group, worked with StockX and San Francisco based startup
- ▶ Oversaw cloud infrastructure project exploring feasibility of Azure
- ▶ Developed full-stack React application integrating Elastic Beanstalk, API Gateway, Lambda, S3, DynamoDB services.

Hackathon First Place @ Capital One Software Summit

May 2018 // McLean, VA

- ▶ Developed web application, Kickback, that consolidates user's financials and uses previous transactions to recommend deals through collaborative filtering

Instructional Aide @ EECS 203: Discrete Mathematics

August 2018 - December 2018 // Ann Arbor, MI

- ▶ Part of the course staff for course on Discrete Mathematics