

Krishan Amin

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Education

University of Michigan

Ann Arbor, MI

B.S.E. in Computer Science and Engineering

B.S. in Cognitive Science, Overall GPA : 3.71

2017–2021

Relevant Coursework : Algorithms & Data Structures, Operating Systems, Web Systems, Information Retrieval, Computer Organization, Networks, Data Mining

Membership: HKN EECS Honor Society, TBP Engineering Honors Society

Work Experience

Arrcus

San Jose, CA

Software Engineering Intern

May 2020 - Aug. 2020

- o Developed functionality to configure enabled match actions for network ACLs to decrease the memory overhead of ACLs in the router OS.
- o Built new commands in the ArcOS CLI to display operational data on network ACL attachments.

University of Michigan - Engineering

Ann Arbor, MI

Teaching Assistant - EECS 485 Web Systems

April 2019 - Present

- o Design and teach weekly lab sections for 40 students to review and demo course topics such as MapReduce, IR, ReactJS.
- o Developed autograder testing suite for the class's MapReduce clone project using Python Mocking.
- o Supported class functions including Office Hours, Exam writing, and class assignment development.

United Airlines

Chicago, IL

Network Planning Developer, Intern

May 2019 - Aug. 2019

- o Redesigned database importing feature for United's Schedule Design Optimizer using Java/Grails app and optimized SQL to decrease system runtime.
- o Created and deployed a web app to process data and automatically create fleet management reports.
- o Developed PoC map-based booking pathway for United.com using Maps and United Flight-Search API.

Michigan Daily

Ann Arbor, MI

Frontend Engineer

Jan. 2019 - May 2020

- o Designed Flask API and web crawler to organize and serve data to our News Mobile App.
- o Developed app infrastructure to ask for preferences and monitor user interaction to create personalized news feeds.
- o Built Cards and Modal windows in ReactJS to redesign interface for Best of Ann Arbor site.

Michigan Solar Car

Ann Arbor, MI

Microsystems Engineer

Sept. 2017 - Oct. 2018

- o Redesigned the solar array with sensors which dynamically wire based on lighting conditions to improve efficiency.
- o Integrated car steering, and lighting microsystems with new hardware using Altium and embedded C to comply with US regulations and decrease energy loss.

Clubs & Other

Tau Beta Pi: Engineering Honors Society

Ann Arbor, MI

Professional Development Chair

Jan. 2019 - May 2019

- o Hosted a variety of company information sessions and skill training workshops for Engineering students.

Technical Skills

Languages: C/C++, Java, Python, SQL, ReactJS

Skills: Networks, System Design, Web Design