

SHIVANG CHARAN

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EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Engineering

Honors: Dean's List

Relevant Coursework: Data Structures, Database Systems, Algorithms, Probability and Statistics, Logic Synthesis, Computer Systems Engineering, Digital Signals Processing, Digital Systems Lab, Senior Design Lab

Expected Graduation: May 2022

GPA: 3.48/4.00

PROFESSIONAL EXPERIENCE

Target | Software Engineering Intern

June 2021 – August 2021

- Engineered full-stack project for the ePick support application to reduce incident resolution time by up to 25%
- Built REST APIs in Kotlin to perform operations such as query from MongoDB, transform data objects, and call other APIs
- Designed backend API tests using Groovy to increase project test coverage by 2% and utilized Kubernetes to deploy code
- Created frontend interface in Typescript and React to let team members easily view all ePick configs and ePick available work

Qualcomm | Software Engineering Intern

June 2020 – August 2020

- Developed modem simulator features to decrease dependency on physical modems and reduce project lead times by up to 10%
- Crafted software that mocked indications, requests, and responses to simulate entire IMS registration procedure
- Revamped modem simulator and new hire documentation to streamline Android Telephony team onboarding process
- Wrote modem simulator frontend in Python, backend in C, and implemented bindings to deliver customizable virtual modem

Be The Match | Software Engineering Intern

June 2019 – August 2019

- Collaborated with CIO, Web, and Marketing teams to design functionality and user interface of 2 iOS mobile applications
- Programmed applications using XCode and Swift and utilized MySQL databases to allow for dynamic content delivery
- Implemented cellular location services to assist transplant centers in better anticipating the arrival of bone marrow couriers

LEADERSHIP DEVELOPMENT

OTCR Consulting | Project Excellence Partner

September 2019 – Present

- Managed a team of 4 consultants to improve the user onboarding experience of a website with over 50 million DAU
- Directed audit team initiative to ensure project excellence of deliverables for clients such as Reddit and Starbucks
- Guided a team of 4 consultants to identify the target market and develop a go-to-market strategy for a software startup
- Developed pricing model tailored to a niche customer base to increase subscription renewals by 15% for tech startup

Phi Gamma Nu Professional Development Organization | Philanthropy Chair

September 2019 – Present

- Launched website and digital marketing for Compete-For-a-Cure fundraiser which raised over \$10,000 for cancer research
- Served on philanthropy committee to organize and coordinate multiple weekly volunteer efforts around the C-U community
- Volunteered at weekly philanthropic events such as C-U at home, the DREAAM House, and Adopt-A-Highway

Policy Debate Team | Varsity Coach & Research Group Leader

September 2018 – May 2019

- Responsible for organizing and leading research, argumentation, and speaking drill trainings for debate students
- Mentored teams which advanced to elimination rounds and won speaker awards at multiple national level debate tournaments

PROJECTS

NBA Roster Engine

June 2021 – August 2021

- Produced webapp with ReactJS to query and modify a GCP database and run stored procedures to generate custom analytics
- Designed interface to allow users to modify teams, trade players, and view analytics as to how their changes impact the league

Fingerprint-Controlled Garage Door Opener

January 2019 – May 2019

- Constructed Arduino and breadboard powered fingerprint-controlled garage door opener as a part of 3-person team
- Invited to participate in ECE Honors lab which provided an open lab for students to build and present self-guided projects

SKILLS & INTERESTS

Skills: Java, C++, Kotlin, MySQL, Python, MongoDB, Groovy, Kubernetes, React, Typescript, Swift, Git

Interests: Soccer, NBA, Cooking, National Kidney Foundation, Yoga, International Travel, Conservation