Anjan Amarnath

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EDUCATION

University of Southern California, Viterbi School of Engineering GPA: 3.6
Bachelor of Science in Computer Science and Business Administration May 2020
Master of Science in Computer Science Dec 2020
Relevant Coursework: Data Structures and Object Oriented Design, Discrete Methods in Computer Science, Principles of Software Development, Intro to Algorithms and Theory of Computing, Intro to Computer Systems

SKILLS

Languages: Java, C++, Hack, PHP, React.js, JavaScript, Node.js , SQL, HTML/CSS
Tools: JUnit, MongoDB, Git, Mercurial, Wireshark, Kismet, Aircrack-ng, Ant, Balsamiq

EXPERIENCE

HackSC Los Angeles, California
Lead Director of Logistics Dec 2018 – Present
- Led 25 event organizers over five months to plan and coordinate the venue, food, and transportation logistics
- Managed $140,000 budget for event with 1000+ attendees and negotiated with vendors to stay within budget
- Created incremental schedule to keep 25 event organizers accountable and working throughout the 36 hour event

Facebook Menlo Park, California
Software Engineering Intern May 2019 – August 2019
- Utilized Hack/PHP and React.js to create privacy debugging tool for Facebook Integrity's Single Review Tool
- Developed and implemented generic action handlers for all SRT tools to enable users to perform automated fixes
- Improved user efficiency for 15K clients by reducing number of privacy/permission related on-call tasks by 10%

Electric Power Research Institute (EPRI) Palo Alto, California
Cybersecurity Research Intern May 2018 – Aug 2018
- Developed Python GUI using Tkinter framework for timing security analysis and evaluation of 3 GPS receivers
- Conducted Wi-Fi, Bluetooth, DECT, ZigBee, RFID, and Smart Card attacks using wireless pentesting techniques
- Drafted DoE proposal for creation of EV charging infrastructure cybersecurity standards/reference architecture

Cybersecurity Research Intern May 2017 - Aug 2017
- Researched 60 IoT cyber security vendors and developed framework to determine best solutions for utilities
- Contacted five industry-leading IoT vendors and initiated steps for future research/collaboration with EPRI
- Documented state of IoT security, industry best practices, and best vendor solutions in internal white paper

PROJECTS

Smart Rebounder (Rasberry Pi, Python,, OpenCV,) Aug 2018 – May 2019
- Developed basketball hoop attachment that rotates rebounding attachment based on player's position on court
- Used OpenCV to track shooter position via webcam and an Atmega328 device to automate servo motor

CourseMash (Java, JavaScript, HTML, CSS, SQL) Mar 2018 – May 2018
- Utilized USC Schedule of Classes API to build web app where students collaborate through forum-like platform
- Implemented "SOS requests" through multithreaded code to notify all other users and request immediate help
- Maintained and updated SQL database on server side through use of JDBC, JSPs, servlets, and sessions

Mini Dog Adoption (Node.js, HTML, CSS, MongoDB) Mar 2018
- Defined schemas and models for dogs and users for use in MongoDB database through CRUD operations
- Integrated Express.js and Dog API framework to create and handle "Post", "Social", and "Adopt" route paths
- Established authentication of users by leveraging passport.js, sessions, basic cryptography, and serialization

LEADERSHIP & ACTIVITIES

Makers, Director of Events Sep 2018 – Present
Association for Computing Machinery, Mentor Sep 2018 – Present
Scope, Developer Jan 2018 – Present
LavaLab, Developer and Product Manager Jan 2017 – Present
Joint Education Program, Computer Science Mentor Jan 2018 – May 2018
Boy Scouts, Eagle Scout with Bronze and Gold Palms Aug 2014 – Jul 2015