Sherveen Shokoohi

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EXPERIENCE

HOUSECALL PRO 04/2021 – 01/2024
Software Engineer II (Ruby on Rails, React, TypeScript) *San Diego, CA*
- Full-stack engineer delivering impactful and highly visible features in a fast-paced startup environment
- Architected and successfully deployed end-to-end features leveraging asynchronous APIs while maintaining a responsive UX
- Spearheaded efforts to close gaps in application security by fixing vulnerabilities uncovered via a bug bounty program
- Instrumented analytics and application performance monitoring for Android, iOS and Web platforms
- Utilized application performance monitoring to identify and optimize some of the slowest endpoints by up to 95%
- Improved CI/CD pipelines to enforce code guidelines and improve quality of life for all engineers

UCSD Department of Computer Science and Engineering 06/2020 – 03/2021
Course Tutor (CSE 134B: Databases and Analytics, CSE 140L: Digital Systems) *San Diego, CA*
- Automated assignment grading via Python and Bash script pipelines and accelerated grading by 90%
- Tutored students in System Verilog, semantic HTML, CSS, JavaScript, client-side performance and accessibility
- Held weekly office hours and drafted grading rubrics with instructional assistants and professors

NAVWAR 06/2020 – 08/2020
Software Engineering Research Intern *San Diego, CA*
- Conducted R&D on image processing and systems design for semi-autonomous amphibious vehicles
- Led team of research interns as software development project manager and maintained several codebases in C++ and Python
- Delivered weekly briefings to 60+ stakeholders and management while providing extensive documentation on development
- Trained in ethical hacking with an emphasis on defensive cybersecurity measures and penetration testing

SPAWAR 06/2019 – 08/2019
Software Engineering Intern *San Diego, CA*
- Developer in an agile environment, participated in daily stand-ups and contributed to feature planning and implementation
- Worked on a private CDN with an administrative dashboard implemented in React and Django
- Developed native mobile applications and low-latency IOT big data processing solutions in a meshed distributed network

NASA JPL 02/2017 – 07/2017
Microcomputer and Robotics Programming Intern *Pasadena, CA*
- Developed a proprietary g-code interpreter library in C to interface and synchronize an array of stepper motors
- Designed, wired and programmed electro-mechanical plotting systems from the ground-up

Sigma-Motion 2658 Robotics 09/2011 – Present
Software and Electrical Systems Team Lead (Now Mentor) *San Diego, CA*
- Applied computer vision and artificial intelligence to develop autonomous navigation algorithms via the WPILib Java API
- Wrote software for the NI roboRio that interfaced control systems, sensors and SBCs over CAN bus and PWM
- Recognized for devising UI control schemes that reduced operator overhead while maintaining accuracy and responsiveness

TOP AWARDS AND RECOGNITIONS

SD Hacks @ UCSD – Judge	**2018**
Mesa Hacks @ Mesa College – 1st Place (solo)	**2018**
IEEE Hacks @ SDSU – 1st Place	**2017**
Special Congressional Recognition by Congressman Scott Peters @ NASA	**2017**

EDUCATION

University of California San Diego	*B.S. in Computer Engineering*	(GPA – 3.5)	**09/2018 – 06/2021**
San Diego Miramar College	*A.S. in Physics*	(Honors Student)	**09/2015 – 06/2018**

TECHNICAL SKILLS

Languages: Ruby, JavaScript, Java, C, C++, Go, Python, HTML, CSS, Assembly, System Verilog, Bash, SQL, Haskell, MATLAB

Frameworks, libraries and tools: Ruby on Rails, React, Android, AWS, DynamoDB, Docker, RPC, Firebase, CircleCI, jQuery, Node.js, Django, Sklearn