

# Sherveen Shokoohi

[sherveenisit@gmail.com](mailto:sherveenisit@gmail.com) ❖ (858)-382-6742 ❖ San Diego, CA ❖ [sherv.dev](http://sherv.dev) ❖ [linkedin.com/in/sherveen-shokoohi](https://www.linkedin.com/in/sherveen-shokoohi)

## 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*

- Applied trilateration algorithms and configured Bluetooth/Wi-Fi meshed networks on microcomputers in C and Python
- 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 – 1 <sup>st</sup> Place (solo)	2018
IEEE Hacks @ SDSU – 1 <sup>st</sup> Place	2017
Special Congressional Recognition by Congressman Scott Peters @ NASA	2017

## EDUCATION

---

University of California San Diego	<i>B.S. in Computer Engineering</i>	(GPA – 3.5)	09/2018 – 06/2021
San Diego Miramar College	<i>A.S. in Physics</i>	(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, GDB, Valgrind, Android, Wireshark, AWS, DynamoDB, Docker, RPC, Firebase, CircleCI, jQuery, Node.js, Django, Sklearn