

Garrett O'Hara

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[LinkedIn](#)

[Bucket](#)

[GitHub](#)

EDUCATION

Georgia Institute of Technology, M.S. Computer Science 2022-2025

- *Relevant Coursework:* Information Security, Network Security

San Diego State University, B.S. Computer Science, Mathematics Minor 2018-2022

- *Relevant Coursework:* Cryptography, Machine Learning, Wireless Networks, Database Theory, Operating Systems, Computer Security, Data Structures & Algorithms, Abstract Algebra, Applied Probability

TECHNICAL SKILLS

- **Languages:** Python, Java, C/C++, Shell, HTML, CSS/Bootstrap, LaTeX
- **Operating Systems:** MacOS, Windows 10, Linux: Ubuntu, Arch, Kali, Red Hat
- **Technologies/Frameworks:** AWS, GCP, Terraform, Boto3, Git, GitHub, Flask, Django, PostgreSQL, MySQL, SQLAlchemy, vim, VSCode, RESTful protocol, NumPy, SciPy, Matplotlib

EXPERIENCE

Platform Operations Engineer (DevOps) at NBC Sports Next (*Remote/San Diego*) May 2022-Current

- Develop and maintain Terraform modules to manage NBC's AWS cloud environment (IAC).
- Maintain uptime and automate deployments to applications in the AWS cloud. Improve CI/CD for app developers
- Engineered service to reload staging databases with Lambda and Step Functions. Improved reload success rates by 500% and increased readability, maintainability, and scalability of the service.

Co-Founder and Software Engineer of Bucket Inc. (*San Diego*) April 2020-Current

- We saw a gap in the current social media space. We made Bucket Lists a social experience by connecting like-minded people to future endeavors. Empowers users with a social marketplace of hobbies and ideas.
- Grew Bucket from an idea to over 11,000 users by publishing a product to the Apple App Store.
- Led solutions for cloud architecture, cloud security, server-side scripts, database schema and scalability.
- Engineered RESTful Django API hosted with EC2 to process CRUD requests for PostgreSQL data.

Python Cloud Engineer Intern at Vee Ventures (*Remote/San Diego*) July 2021-August 2021

- Worked with AWS services to architect and engineer solutions for a recruitment and candidate sourcing tool.
- Managed Webhooks and REST API architecture with AWS: API Gateway, Lambda, IAM, Cloudwatch, SAM.
- Engineered Lambda with Python 3. Utilized Boto3 SDK to access S3, SNS, EC2, Secrets Manager, Athena.
- Crawled S3 buckets with Glue to create Athena (SQL) tables for data analysis.

San Diego State Cyber Defense Team (*San Diego*) January 2019-May 2022

- Learned concepts of Linux, Unix, and Kali Linux, Shell scripting, compression, cryptography, packet sniffing, proxy/proxy chaining, process management, task automation, network traffic analysis, and network security.
- Software used: Aircrack, Bash, Hashcat, Python, HTML, John the Ripper, Metasploit, NMAP, TOUR, RDBMS, VMs, VPNs, Wireshark, and others

PROJECTS

Pollster Web Application (*Python, Flask, HTML, CSS: Bootstrap, MySQL, Google Cloud*) December 2021

- An anonymous polling application available to any user via a web browser. Displayed poll results in real-time.
- Engineered a RESTful API with Flask hosted on a Google Cloud Server. MySQL data hosted remotely with GCP.

Laptop Theft Prevention Software (*Python, Bash, Twilio*) December 2021

- Theft prevention software triggered an alarm and sent a text to the owner of the laptop power when unplugged.
- The software leveraged operating system calls, multithreading, RESTful requests.

EXTRACURRICULAR, AWARDS, INTERESTS

- Computer Science Club at SDSU 2019-2020
- Theta Chi fraternity, Gamma Theta Chapter at SDSU
- Recipient of the San Ramon Valley Varsity Football: Wolf Award (**Leadership Award**) 2018
- Volunteer at local church 2016-Current
- NorCal Baseball Coaching Assistant 2016-2019
- Acoustic Guitarist 2015-Current