

# Garrett O'Hara

San Diego, CA 92037 [garrettohara2018@gmail.com](mailto:garrettohara2018@gmail.com) Cell: (925) 437-8380

[LinkedIn](#)

[Bucket](#)

[GitHub](#)

## OBJECTIVE

I am a software enthusiast and a young engineer poised to create software that will make an impact on society. I possess technical intuition and the ability to problem solve in a team or independent environment. I am proud of my ability to learn new technology/skills quickly, balance a multi-faceted workload, and work tenaciously each day.

## EDUCATION

**San Diego State University, B.S. Computer Science, Mathematics Minor**

*Expected Graduation: Spring 2022 | Major GPA: 3.5*

- **Computing:** Data Structures, Algorithms & Analysis, Machine Learning, Wireless Networks, Database Theory, Programming Languages, Computer Architecture, Systems Programming, Object-Oriented Programming
- **Mathematics:** Cryptography, Abstract Algebra, Discrete Math, Linear Algebra, Calculus I & II, Classical Physics, Electromagnetic Physics, Programming in Math

## TECHNICAL SKILLS

- **Languages:** Java, Python, TypeScript, JavaScript, Swift, C/C++, LaTeX, Shells: bash, zsh
- **Operating Systems:** OSX, Ubuntu, Kali Linux, Windows 10
- **Technologies/Frameworks:** Google Cloud Platform, AWS, Boto3, Git, Node.js, XCode, vim, VSCode, RESTful protocol, Flask, Firebase, MySQL, BigQuery, NumPy, SciPy, Matplotlib, CocoaPods

## EXPERIENCE

**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 6000 users by publishing a product to the Apple App Store.
- Led solutions for Cloud Services, security, and data analytics.
- Managed GCP architecture to maximize query efficiency and data security for the best user experience.

**Python Cloud Engineer Intern at Vee Ventures** *(New York)*

**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 2021**

- 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

**A\* Pathfinding Algorithm with Interactive Interface (Python, Tkinter)**

**January 2021**

- Implemented the renowned A\* algorithm using a Euclidean distance heuristic.
- Custom start, end, and obstacle nodes. The program determines the optimal path which is highlighted in real-time.

**Sorting Algorithm Analyzer (Python)**

**January 2021**

- Demonstrated bubble, heap, insertion, merge, quick, and radix sorting algorithm complexity with Matplotlib

## 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