Nathan Sit

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Education

University of California San Diego   *La Jolla, CA*
B.S. IN COMPUTER ENGINEERING   *Anticipated June 2023*
- Classes: Data Structures & Algorithms, Networks, Operating Systems, Computer Architecture, Software Engineering, Cybersecurity
- Current Coursework: Machine Learning, Compilers Construction
- Achievements: National Merit Scholar, above average score in the Putnam Exam: the premier US undergraduate math competition

Experience

Semantic AI   *San Diego, CA*
SOFTWARE ENGINEER   *May 2023 - Present*
- Part time software engineering position working with the Quality Assurance team under Mike Shughrue

General Atomics Aeronautical Systems   *Poway, CA*
SOFTWARE ENGINEER INTERN   *June 2021 - August 2021*
- Updated **Bash** build script for next generation radar software to streamline build and release process
- Designed and implemented a real time radar status display in **C** used by the software development team for system integration

UCSD CSE Department   *San Diego, CA*
UNDERGRADUATE TUTOR   *January 2021 - December 2021*
- Held open lab hours to assist students with completing **Java** programming assignments in Data Structures & Object-Oriented Design and Software Tool and Techniques (CSE 12 & CSE 15L) with Instructor Gary Gillespie
- Updated automated test cases used to grade student's programming assignments

Neural Interaction Lab   *San Diego, CA*
UNDERGRADUATE RESEARCH ASSISTANT   *April 2019 - April 2021*
- Recognized for contributions through authorship in multiple journals including *Advanced Materials Technologies* and *Nano Select*
- Managed and trained two other lab members in microfabrication processes to complete projects on time

Projects

Employee Portal   *San Diego, CA*
ROYAL EMERALD PHARMACEUTICALS   *September 2020 - December 2020*
- Collaborated with 10 other developers to create payroll system for a pharmaceutical startup
- Implemented full-stack web app using **Vue** (frontend), **MySQL** (database), **Node** and **Express** (backend)
- Helped to produce artifacts such as Design Use Cases and Screen Sequences to facilitate development
- Organized UI screens designed in Figma and assisted teammates with Git to streamline collaboration

TempDataDump   *Santa Ana, CA*
WWW.BIT.LY/TEMPDATADUMP   *June 2020*
- Developed a webpage that serves as a scratch pad for ideas that come to mind
- Implemented in **HTML**, **CSS**, and **JavaScript** on Codepen

Basic Timer   *San Diego, CA*
WWW.GITHUB.COM/NATHANSIT/BASIC-TIMER   *April 2020*
- Designed a minimalistic Unix command line timer with notifications
- Created **Bash** script to automate installation process

Skills

Languages	Java, C, C++, Python, CSS, JavaScript, ReactJS, Bash, ARM Assembly
Tools/Tech	Unix, Vim, Git, Figma, GDB, JDB, Docker, ssh, npm
Markup	HTML, XML, Markdown, LaTeX
Other	English, Mandarin (conversational)