Sean Minh Nguyen

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EDUCATION

California Polytechnic State University, San Luis Obispo   September 2022 - June 2026 (expected)
- Bachelor of Science in Computer Science, Minor in Data Science | GPA: 4.00
- Relevant Coursework: Data Structures, OOP, Systems Programming, Cryptography, Algorithms, Databases, Computer Vision, Compiler Security, Networks, Distributed Parallel Computing, Computer Architecture (intended)

EXPERIENCE

General Atomics Aeronautical Systems - *Software Engineer Intern*, Poway, CA   June 2024 – August 2024
- Trained AI LLM to automate script generation and execution for the MQ-9 regression tests, reducing errors by 75%
- Completed 8 scripts for re-training, resolving 1371 issues across 15,540 lines of code, improving productivity by 234%
- Committed new human-machine interface functionality utilizing Optical Character Recognition to the testing framework

Protech Technologies, Inc. - *Project Manager*, Placentia, CA   May 2023 – June 2024
- Managed development of a digital time card, calculating working hours, time-off, and attendance for 50+ employees
- Delegated interns on usability tests to improve designs and requirements for a mobile app centralizing employee forms
- Oversaw software project to streamline the Return Merchandise Authorization process, automating 80% of the system

Mai Tang OD, Inc. - *Software Developer*, Fullerton, CA   June 2022 – June 2024
- Developed Python program to parse multiple disbursement files into a readable database, enhancing efficiency by 268%
- Programmed Python GUI to merge 100s of patient data into a comprehensive monthly report, reducing workload by 89%
- Analyzed Google Business Profile over 3 years to customize the company's website and improve impressions by 150%

Boeing - *Engineering Intern*, Huntington Beach, CA   June 2021 – August 2023
- Directed a team of 4 engineers to design model thrust structures, improving performance of previous model by 594%
- Delivered a STK 12 analysis of the efficacy of aircrafts, ships, and routes in emergency relief scenarios involving Taiwan
- Utilized DonkeyCar software to research neural networks alongside a team of 7 interns and train autonomous race cars

ORGANIZATIONS

Hack4Impact - *Associate Director of Engineering*, San Luis Obispo, CA   May 2024 – Present
- Innovating a Personal Website Bootcamp project to introduce 80+ new recruits to software engineering across 8 weeks
- Hosting weekly workshops and office hours for fullstack development with React, TypeScript, Next.js, and MongoDB

Vera - *Co-Director and Fullstack Engineer*, San Luis Obispo, CA   January 2024 – Present
- Centralizing Cal Poly's mental health resources into a comprehensive website, helping students explore campus services
- Co-leading project team, planning GitHub sprint board, organizing Fall recruitment and onboarding for 15 new members
- Coordinating with professors and Campus Health & Wellbeing to populate the website with resources for deployment

PROJECTS

Drip by Drop | *React Native, AWS S3, Figma*   September 2023 – Present
- Publishing to the Google Play Store a fountain finder app to display and navigate users to nearby hydration stations
- Integrated user account authentication, rating systems, user profiles, and Google Maps API for navigation

Volunteer Manager | *React, Node.js, Next.js, MongoDB, TypeScript*   November 2023 – July 2024
- Implemented volunteer manager web app for the Go See Foundation, a non-profit aiding those with vision impairments
- Contributed 25% of fullstack development, focusing on accessibility with screen-readers, focus styling, and media queries
- Collaborated with the nonprofit and team of 12 designers and developers using the Agile model with 2 week sprints

Digital Cookbook | *Java, Eclipse IDE*   January 2022 – September 2022
- Engineered a GUI to digitize 150+ paper recipes into an accessible, modifiable catalog enhancing usability and scalability
- Established design and functional requirements with the client, culminating in a 180% improvement in business efficiency

myTar | *C*   May 2023
- Implemented a file directory archival tool from scratch using C to recreate the Unix tar command in 1.4k lines of code

TECHNICAL SKILLS

Languages: Python, C, Java, SQL, JavaScript, TypeScript, HTML/CSS, Lisp, Scheme, Racket, F#, JavaFX
Frameworks/Systems: React, React Native, Node.js, Next.js, Express, Unix
Developer Tools: Git, GitHub, SVN, MongoDB, G Suite, Microsoft 365, Android Studio, AWS S3, Systems Tool Kit 12