

SEAN KELMAN

First-Year Computer Science Student | Passionate About Changing the World Through Technology

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Education

University of California, Irvine

Expected Jun. 2025

Computer Science

Irvine, CA

- **GPA: 4.0/4.0**
- **Relevant Coursework:** Python Programming and Libraries, Algorithms, Artificial Intelligence, C++, Data Structures, Computer Organization, System Design, Formal Languages and Automata, Boolean Logic and Discrete Structures, Discrete Mathematics, Software Engineering

Los Alamitos High School

Aug 2019 - Jun 2023

- **GPA: 4.8/4.0, Valedictorian**

Los Alamitos, CA

Cerritos College

Jul 2018 - Jul 2023

Concurrent Enrollment, Computer Science

Cerritos, CA

- **GPA: 3.92/4.0**
- **Relevant Coursework:** C/C++, Java, Data Structures, IT and Cybersecurity Fundamentals, AWS Security, Multivariable Calculus, Linear Algebra & Differential Equations, HTML & CSS

Cypress College

Jul 2019 - Dec 2021

Concurrent Enrollment, Computer Science

Cypress, CA

- **GPA: 4.0/4.0, Cybersecurity Certificate**
- **Relevant Coursework:** Python, Ethical Hacking, Network Security, Cisco Networking

Experience

Newhope Law

Mar 2023 - Sep 2023

Software Developer

- Reduced costs by 1 FTE by automating routine tasks
- Developed an automated cloud filing program for emails and attachments based on the contents
- Created an automated cloud filing program for scanned documents based on contents
- Built a web scraping program to gather dates of upcoming patent refiling for all cases

CIU Networks

Jun 2023 - Aug 2023

Software Developer

- Developed Python script to automate auditing active network devices and contracts between two services.
- Implemented web page to allow clients to create tickets, deployed backend for web page using webhooks to create tickets based on information from form on the webpage.

Projects

Portfolio Website | *React, JavaScript*

Aug 2023 - Sep 2023

- Designed and developed personal Progressive Web App to showcase personal projects and information. Implemented service workers to enable fast loading regardless of network speeds, offline access, and other native app capabilities.

MicroMouse | *Java, Swing*

Jul 2023 - Sep 2023

- Developed a Maze Solving program that could be applied to a robot in a MicroMouse competition. I implemented many different pathfinding/solving algorithms, including Breadth-First Search (BFS), Depth-First Search (DFS), Dijkstra's Algorithm, and A* algorithm.

Stock Option Web Scraper | *PHP, HTML, CSS, SQL, AMP*

Jan 2022 - Jun 2022

- Optimized stock option investment by creating a Webscraper in Python using BeautifulSoup4, lxml, and requests to access HTML code of Yahoo Finance, then searched the HTML code for the necessary information, used an algorithm to calculate and sort by expected return. Created an accompanying program to display charts of the stocks to provide user with more information about suggested purchases

HandicapTracker | *PHP, HTML, CSS, SQL, AMP*

Jan 2022 - Jun 2022

- Built a tool for golfers to measure their handicap. Designed web pages in PHP and created a backend database with MySQL. Learned to use HTTP requests, manage databases, create basic Web App security including password authentication and data encryption.

Technical Skills

Languages: C/C++, Python, Java, JavaScript, TypeScript, HTML, CSS, PHP, SQL, Kotlin, Powershell

Technologies/Frameworks: Angular.js, React.js, Node.js, TensorFlow, Sci-kit Learn, OpenCV, Flutter, Gradle

Developer Tools: Git, AWS