Sean Kelman

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Education

- **B.S. Computer Science and Engineering; University of California, Irvine** (September 2023 - June 2025)
  - Starting Fall 2023
  - Planned Coursework: Python Programming and Libraries, Boolean Logic and Discrete Structures, Discrete Mathematics, Software Engineering, Data Structures, Computer Organization, System Design, Algorithms, Formal Languages and Automata, Artificial Intelligence
- **Los Alamitos High School** (August 2019 - June 2023)
  - GPA: 4.76/4.00, **Valedictorian**
- **Cypress College, Concurrent Enrollment, Computer Science** (July 2019 - Dec 2021)
  - GPA: 4.00/4.00, **Cybersecurity Certificate**
  - Relevant courses: Python, IT and Cybersecurity Fundamentals, Ethical Hacking, Network Security, Cisco Networking
- **Cerritos College, Concurrent Enrollment, Computer Science** (July 2018 - July 2023)
  - GPA: 3.92/4.00
  - Relevant courses: C/C++, Java, Data Structures, IT and Cybersecurity Fundamentals, AWS Security, Multivariable Calculus, Linear Algebra & Differential Equations, HTML & CSS

Projects

- **Stock Option Web Scraper [Link]**
  - Created 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 [Link]**
  - Created 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.
- **Handwritten Digit Classification [Link]**
  - Created a Python program using scikit-learn that uses classification models to classify images of handwritten digits as 0-9. Created another Python program using TensorFlow to create a neural network that would perform a non-linear regression to analyze how the accuracy of each model changed as the size of the training set changed.
- **FIRST Robotics Team [Link]**
  - Team Captain and Lead Programmer for Team 6220. Programmed robot using Java to automate robot processes using input from cameras and sensors. Used computer vision to create full and semi-autonomy. Tested code, diagnosed problems, and debugged/troubleshot problems.

Experience

- **Programmer, Newhope Law** (March 2023 - September 2023)
  - Developed Python scripts to automate routine tasks: created 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; created a web scraping program to gather dates of upcoming patent refiling for all cases managed by the office

Skills

- Languages/Tools: Python, C/C++, Java, C#, Object-Oriented Programming, Multi-threaded Programming, TensorFlow, PyTorch, NumPy, Pandas, SciPy, Sklearn, OpenCV, Perl, PHP, GoLang, HTML, CSS, JavaScript, TypeScript, Angular.js, React.js, React Native, Node.js, Spring, Kotlin, Git, GitLab
- DB: SQL, PL/SQL, PostgreSQL, MySQL, SQLite, Microsoft SQL Management Server, MongoDB
- Cloud: AWS, Azure, Google Cloud Platform
- OS: Linux OS (Ubuntu, Red Hat, Kali), Windows OS, Unix