Sabrina Park

sabrinapark710@gmail.com | Irvine, CA
Portfolio | Linkedin | Github

EDUCATION

University of California, Irvine *Expected Graduation - 2026*
- Bachelor of Science in Computer Science, Specialization in Intelligent Systems - 3.56 GPA
- **Relevant Coursework**: Data Structures and Algorithms, Design and Analysis of Algorithms, Principles in System Design (Operating Systems), Computer Architecture, Requirements Analysis & Engineering Human Computer Interaction, Statistics, Linear Algebra, Calculus, Information Retrieval, Intermediate Programming in Python, Machine Learning and Data-Mining, Artificial Intelligence, Formal Languages and Automata
- **Technical Skills**:
    - Programming: Java, Python, C, C++, SQL, JavaScript, HTML, CSS
    - Frameworks & Libraries: React, FastAPI, Firebase, PyTorch, Pandas, Matplotlib, Unit Testing
    - Tools: Git, Linux, AWS, Figma, Microsoft Office, Google Workspace
    - Other: Test-driven development, Agile team collaboration
- **Extracurriculars:** BlockChain at UCI, WICS, Design at UCI, Data at UCI, Hack at UCI, Running Club, Rec Soccer

Handsworth Secondary - Double Dogwood Diploma with Honors, Completion of the French Immersion Program
- Varsity Basketball, Varsity Soccer, Peer Tutoring Club President and French/Math Tutor

RELEVANT EXPERIENCE

Undergraduate Research Assistant - BiasLab, UC Irvine Present
- Develop and test image recognition models leveraging Hyperdimensional Computing (HDC) and EvanClip
- Automate dataset preprocessing and parameter tuning, improving experimentation efficiency
- Deliver weekly reports to research leads

Learning Assistant | *University of California, Irvine* 2023-2025
- Mentored 100+ students in Python for intermediate programming at UCI
- Led group debugging sessions, explained concepts like recursion, OOP, modular design
- Collaborated with faculty to improve student engagement and instructional quality

Deep Learning Research - Universidad Carlos III de Madrid (UC3M) Summer 2024
- Conducted research on Evolutionary Computation and Neural Networks under Professor Francisco Javier García Blas
- Utilized PyTorch and TensorFlow to implement neural networks and evolutionary algorithms for developing animal X-rays with reduced radiation
- Worked independently while providing regular weekly reports on progress and results to the research team

TECHNICAL PROJECTS

AWS-Based Stock Price Alert System Present
Personal Project
- Building a Python app using DynamoDB and yfinance to track stock prices and trigger custom alerts.
- Used Boto3 to manage user stock data with a modular, class-based database interface.
- Designed for Lambda deployment with CloudWatch Events and optional SNS/email notifications.

Freshventory | *React Native, FastAPI, Firebase* Winter 2025
IrvineHacks
- Led full-stack development of an AI-driven food waste reduction app, applying bias for action to build and deploy within a 36-hour hackathon
- Proposed a scalable solution using React Native and FastAPI to automate fridge item detection and deliver high-impact user value via recipe recommendations.

Search Engine | *Python, MongoDB, TF-IDF* *Fall* 2024
Personal Project
- Implemented a lightweight full-text search engine indexing 1M+ documents with a custom inverted index and TF-IDF scoring
- Integrated MongoDB for large-scale document storage UI integration via React; designed plans to implement PageRank-style ranking

Performance Analysis | *Python, Pandas, Matplotlib* Winter 2025
Data at UCI Project Team
- Collaborated with a team to analyze student performance school data from Portugal as a quarter long project
- Utilizing statistical techniques and data visualization to identify performance trends and influential factors
- Project findings presented to a panel of industry professionals for feedback and evaluation

ADDITIONAL EXPERIENCE

Brand Ambassador/Sales Associate | *Aerie* 2022-2023
- Helped customers find products by understanding their preferences and offering suggestions based on fit and style.
- Kept displays organized and neat, ensuring clothes were clean, steamed, and properly folded throughout the day.
- Managed point-of-sale transactions including cash handling

ACHIEVEMENTS

- Dean's Honor List **-** Spring 2025, Winter 2025, Winter 2023, Fall 2023
- BC Achievement Scholarship, awarded to the top students in the province (2022)