

# SCOT HIGHLANDER

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## Education

**B.S. in Computer Science**      **GPA:** 3.0/4.0      University of California-Riverside      June 2026

**Relevant Coursework:** Software Construction, Data Structures, Algorithms, Computer System Architecture, Artificial Intelligence

**Awards:** Dean's Honor List (2022, 2023, 2024)

## Technical Skills

**Programming Languages:** Python, C/C++, Java, SQL, R, Assembly, TypeScript, Swift, Kotlin

**Database:** MySQL, PostgreSQL, MongoDB, Oracle, Microsoft SQL Server

**Web Development:** HTML, CSS, JavaScript, jQuery, React.js, Node.js

**Tools & Frameworks:** Git, Visual Studio Code, Open CV, Jupyter, Kubernetes, Docker

**Cloud Service:** Amazon Web Services (AWS), Google Cloud Platform (GCP), Microsoft Azure

**AI & ML Libraries:** Pandas, NumPy, Scikit-learn, Flask, Natural Language Toolkit

## Intern Experience

**Software Engineer Intern**      *XYZ Company, City, CA*      June 2025-September 2025

- Collaborated with the project manager and developers to outline plans and develop the ABC system using **Java**.
- Designed and implemented pagination in **JavaScript**, reducing page response time by 2 seconds.
- Refactored the automatic image loading using XYZ **libraries** and XYZ **algorithms**.
- Leveraged **REST APIs** and **MongoDB** database to manage search/delete requests for over 500 users

## Projects

Senior Design Project      *UC-Riverside*      April 2025- Present

**Optical Character Recognition System** | [Github link](#)

- Develop an Optical Character Recognition (OCR) system and integrated search and data manipulation features for flexible user interaction
- Utilize **Python** and **MATLAB** to implement image processing and algorithms, achieving 95% accuracy in character recognition

**Real-time Weather Forecast Application** | [Github link](#)      October 2024- December 2024

- Built a full-stack web application to provide real-time and 5-day weather data for any location or city
- Utilized **JavaScript**, **HTML**, **CSS**, **Node.js** to create front-end app server configuration
- Implemented application programming interface (**API**) calls to gather the weather data and display the selective data within the web app

**Chess Game Design** | [Github link](#)      May 2024- June 2024

- Collaborated with 2 team members to design a 2D array chess game, allowing players to make moves
- Utilized **C++** to implement the game logic including piece movement, capturing and command lines
- Created a user-friendly interface for input and display, visualizing the chess board and pieces in 2D
- Performed code testing and resolved bugs, ensuring the seamless game functionalities

## Leadership Experience

**Peer Mentor**      *Club/organization, UC Riverside*      September 2024-Present

- Guide and support 1st and 2nd-year undergraduate student in subjects of C++ and Python, helping over 20 students succeed in their courses
- Collaborate with 10+ peer mentors to lead monthly workshops and weekly group study sessions, enhancing the technical skills of club members and boosting club engagement

(**Begin** each bullet with an action **verb**; **Highlight/bold** technical skill in the bullets; Pay attention to past and present tense)