

TEREK JOHNSON

+1(661) 313-0005 ◊ Los Angeles, CA ◊ contact@terekj.me ◊ [linkedin.com/in/terekjohnson](https://www.linkedin.com/in/terekjohnson) ◊ github.com/terekj

EDUCATION

Master of Computer Science, University of California: Riverside Expected 2027
Bachelor of Computer Science, University of California: Riverside GPA 3.65, Expected 2026
Relevant Coursework: Software Construction, Discrete Structures, Introduction to Software Engineering, Intermediate Data Structures and Algorithms, Embedded Systems
Associate of Computer Science, Associate of Mathematics, College of the Canyons 2022-2024

PROJECTS

Machine Learning Model Analysis on Titanic Dataset Feb 2026

Compared different nearest-neighbor AI algorithms to create a model to predict survival of passengers.

- Used 1-NN forward and backward elimination algorithms to find optimal feature subset for AI model.
- Applied artificial intelligence principles to discover why training was not accurate; resulted in finding the critical error that increased model accuracy by 30%.

Tamagotchi-style Game Jan 2026 - Mar 2026

A handheld device that simulates care-based gameplay using hardware, on-board graphics, and embedded firmware.

- Designed and implemented an embedded Tamagotchi-style game on AVR microcontroller, using SPI communications and timer-driven task scheduling.
- Built drivers for sprite rendering, state machines, and PWM audio output.

Full-Life Mar 2025 - June 2025

Lifestyle planning platform that enables discovery of personalized activities through an integrated calendar interface.

- Designed and implemented frontend of web application using Figma, React, HTML and CSS.
- Used OpenWeather and custom forms to retrieve user information to assign recommendations with SERP API.
- Containerized application with Docker to simplify multi-service setup and seamless boot of application.

RESEARCH

Undergraduate Research Assistant June 2024 - Sep 2024

Collaborative Intelligent Systems Lab at the Marlan & Rosemary Bourns College of Engineering *Riverside, CA*

- Worked in a team of 8 to collect a LiDAR & camera dataset from multiple agents to synchronize and use for AI.
- Evaluated collected data and troubleshooted drivers to determine the dataset's suitability for training and benchmarking machine learning models for autonomous driving.
- Prepared an academic progress report with research findings and presented to scholars at the 2024 Marlan and Rosemary Bourns College of Engineering research symposium.

WORK

Transfer Student Peer Mentor Sep 25 - Present

Marlan and Rosemary Bourns College of Engineering (BCOE) *Riverside, CA*

- Direct social media & marketing campaigns; generating and executing ideas leading to increase in non-follower engagement by 8%.
- Supervise engineering community study spaces, manage staff appointments, and enforce institution policies.
- Represent BCOE for outreach events, student panels, and campus tours for current and prospective students.
- Advise hundreds of students on student life, undergraduate research, and opportunities for engineers.

SKILLS

Technical Skills Agile Development, Version Control, Docker, MongoDB, React
Programming Languages & Frameworks C++, C, C#, Java, JavaScript, Python

PROFESSIONAL AFFILIATIONS

- ◊ Mathematics, Engineering, and Science Achievement (MESA)
- ◊ National Society of Black Engineers (NSBE)
- ◊ Society of Hispanic Professional Engineers (SHPE)
- ◊ College of the Canyons Tech Club