

# Brandon Sun

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## EDUCATION

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### University of California - Riverside

Bachelor of Science in Computer Science

Riverside, CA

June 2026

## TECHNICAL SKILLS

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**Languages:** Java, Python, C++, TypeScript, JavaScript, Golang

**Developer Tools:** Git, GitHub, GitLabs

**Frameworks and Libraries:** React, Next.js, Node.js, Express.js, REST, RAG, Anaconda

**Databases and Tools:** PostgreSQL, MongoDB, Firebase, GCP, Cypher, Jupyter, Neo4j, Docker, Kubernetes, Jira

**Certifications & Clearances:** U.S. Department of Defense Top Secret-Level Security Clearance

## EXPERIENCE

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### Layup Parts

Software Engineering Intern

Huntington Beach, CA

January 2026 – March 2026

- Built a full-stack LLM-powered chatbot using Go, TypeScript, React, and Neo4j, integrating it into internal and external platforms
- Implemented backend services to manage LLM prompts, conversation state, and retrieval-augmented responses
- Developed a responsive chat UI and APIs enabling secure, real-time AI interactions for customers and employees

### Northrop Grumman

Software Engineering Intern

Woodland Hills, CA

June 2025 – September 2025

- Artificial Intelligence and Analytics
- Modernized codebase with C++ 20 features implementing modular design patterns enabling scalability
- Refactored data reader classes in Java and C/C++ for pattern-of-activity algorithmic software to improve maintainability and extensibility for ingestion of future data formats
- Implemented CI/CD pipeline enforcing code quality and automated checks utilizing Jenkins and GitHub Actions
- Collaborated with a team of 5+ engineers adhering to AGILE methodology utilizing EDN Jira and GitHub

### Citrus and Cutie Hack @ UCR

Lead Software Engineer

Riverside, CA

September 2024 – June 2025

- Lead a team of 30+ student developers to build a Hackathon Portal for 1300+ participants
- Architected a data pipeline with dedicated databases for multiple environments, achieving zero incidents
- Utilized TypeScript interfaces to convert MongoDB data models, TanStack React Tables, dropdowns, and dashboards from JavaScript, improving code scalability and maintainability.
- Enhanced user management and security using MongoDB, GCP, and OAuth for over 1300 users
- Met deadlines by leading scrum and sprints, enhancing productivity for a team of 30 engineers
- Adhered to AGILE methodology to ensure iterative development and efficient project management

### Association for Computing Machinery @ UCR

Project Lead

Riverside, CA

March 2024 – April 2025

- Lead and collaborated with a team of 8+ student developers to build UC Riverside club websites
- Leveraged Next.js, TailwindCSS, and React to create dynamic content and ensure optimal responsiveness

### Highlander Racing FSAE

Software Engineer

Riverside, CA

January 2024 – March 2024

- Contributed to the Battery Management Unit (BMU) Design Team by developing software for the vehicle's accelerator system enhancing system responsiveness
- Developed C++ code in the BQ79600-Q1 FSM enabling communication between the microcontroller and battery
- Developed SPI functions to read/write voltage, temperature, and current data from microcontroller to peripherals

## PROJECTS

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HomeBase | *React, Next.js, TailwindCSS, TypeScript, MongoDB, Cypress*

[Github](#)

- Developed a full-stack roommate management app using React and Node.js to streamline household tasks
- Leveraged Next.js, TailwindCSS, TypeScript, Cypress.io, and MongoDB accelerating development speed and ensuring robust authentication, real-time data management, and end-to-end test coverage.
- Implemented secure user authentication using tokenization with JSON Web Tokens (JWT), enabling persistent user sessions and safeguarding roommate data across the platform.