

# Jacob Cho

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## EDUCATION

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### University of Southern California

*Bachelor of Science in Computer Engineering and Computer Science*

Los Angeles, CA

Aug. 2023 – May 2027

## EXPERIENCE

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### Tech Fellow

August 2025 – Present

*CodePath*

*Remote*

- Enabled the success of 200+ students by tutoring them on core interview concepts and data structures, and by coaching them on how to communicate their solutions effectively to interviewers
- Provided personalized support to 10+ students per lecture by solving complex interview questions and offering tailored explanations, helping students grasp challenging concepts and build strong interview habits

### Software Engineer Intern

May 2025 – August 2025

*Coursistant*

*Los Angeles, CA*

- Engineered 10+ front end pages using TypeScript, React, and Vite, enabling complex features to improve UX
- Built and deployed 20+ RESTful APIs with Java/Spring Boot on AWS (EC2, RDS, S3) and tested with Postman, enabling seamless data flow for critical user actions such as payments and notifications
- Collaborated with fullstack, product, and design teams in daily SCRUM meetings to identify and refine 15+ UI/UX specifications, leading to direct improvements in product design and user flows

### Web Administrator

March 2025 – May 2025

*Soccer Shop USA*

*Los Angeles, CA*

- Developed Python automation scripts to process 10,000+ backlogged product listings with incorrect formatting, reducing website runtime by 40% and eliminating 10+ hours of manual checking per week
- Automated WooCommerce CSV import systems, reducing manual input errors by 75% for 1,200+ monthly listings
- Engineered a full-stack automation system that scraped live soccer match results (EPL, La Liga, etc.) and triggered WooCommerce jersey discounts via WooCommerceAPI, increasing jersey sales by 10% monthly

### Software Engineer Intern

May 2022 – Aug 2022

*Advanced RF Technologies*

*Burbank, CA*

- Developed a Python algorithm for frequency sorting, reducing manual developer workload by 10+ hours per week
- Deployed the algorithm to all engineers, accompanied by an instructional video, which standardized workflows and improved data processing speed by 40%
- Contributed to website upkeep using WordPress, writing scripts and optimizing plugins to reduce runtime by 30%

## PROJECTS

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### USC Club Review Platform | *Java, TypeScript, React, SpringBoot, MongoDB*

March 2025 – May 2025

- Designed and developed 15+ RESTful API endpoints with MongoDB database, ensuring data integrity for features such as club creation and user reviews
- Implemented testing strategy including blackbox, whitebox, unit, and integration, primarily using Postman to validate all backend endpoints and ensure reliable data flow through the application

### PayPal Payroll Automation | *Python, Google API, PayPal API, Discord API*

Nov 2024 – Dec 2024

- Developed a Python automation script that streamlined monthly payroll for a large content creator (3M+ subscribers on YouTube), automating over \$5,000 in payments per month
- Integrated REST APIs from PayPal, Google Sheets, and Discord to automate payment processing and notifications, eliminating a 2-3 day manual workload

## TECHNICAL SKILLS

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**Languages:** Java, Python, C, C++, SQL (Postgres), JavaScript, TypeScript, HTML, CSS, Verilog

**Frameworks:** React, Node.js, Spring Boot, Flask, WordPress

**Developer Tools:** MongoDB (NoSQL), Git, Maven, Docker, Google Cloud Platform, VS Code, Linux (Ubuntu)

**Coursework:** Software Development, Data Structures, Algorithms, Theory of Computing, Discrete Math, Probability Theory, Linear Algebra, Embedded Systems