

Winbert Zhang

650-229-3714 | winbertzhang@gmail.com | linkedin.com/in/winbert/ | winbertzhang.com

EDUCATION

University of California, Santa Barbara

Expected Graduation June 2025

B.S. in Computer Science

GPA: 3.86/4.00

Relevant Coursework: Software Engineering, Machine Learning, Algorithms and Data Structures, Object Oriented Programming, Computer Architecture, Networking, Databases, Linear Algebra, Calculus, Probability and Statistics

EXPERIENCE

Software Engineer Intern

June 2024 – Present

Vitu

Agoura Hills, CA

- Integrated Generative AI into Vitu Audit by processing 600,000 PDFs monthly to reduce auditing time by 50%
- Achieved 99.7% accuracy in document verification rate by researching and testing different AI approaches.
- Optimized data processing with Python cloud functions to ensure scalable handling of user-submitted PDFs.
- Developed an internal API with C# to extract key-value pairs from PDF documents and enable automation.

Website Developer Intern

June 2023 – Present

UCSB Health and Wellness Department

Santa Barbara, CA

- Developed Flask and NextJS web app for office supply management involving over 100 items and equipment.
- Established robust PostgreSQL database model and schema encompassing multiple tables and columns.
- Integrated automated email alert system deployed on Heroku using Python Requests and SendGrid emailing API
- Implemented secure user authentication through Google OAuth to manage the sign-in process for admins and users

Software Developer Intern

June 2022 – Sept 2022

X-Camp Academy

Remote

- Developed new features for Learning Management System, serving 100 students, 30 teachers, and 10 admins.
- Designed several REST API endpoints using Java Spring framework to perform CRUD operations on database.
- Updated codebase with automated unit, integration, and end-to-end testing to ensure 100% code coverage.
- Imported 1000+ student records into database with Python and SQL scripts and performed data validation.
- Leveraged Agile scrum meetings to collaborate effectively with manager and fellow team members.

CS Undergraduate Learning Assistant

Sept 2022 – Present

University of California, Santa Barbara

UCSB

- Mentored and assisted over 300 UCSB Computer Science undergrads for 2 years by conducting weekly one-on-one debugging sessions and providing essential support through office hours.
- Offered personalized guidance to help students debug code and understand C++ and Python concepts.
- Engaged students through targeted questions and diagrams to identify key ideas and encourage learning.
- Employed strong verbal and written communication skills with professors and TAs to facilitate class smoothly.

PROJECTS

GauchosCourses | *Java, Maven, Spring Boot, Vue, Node, AWS, MongoDB, Git*

Sept 2023

- Project lead for UCSB course planner application, developing and reviewing code for 15 new features
- Promoted application launch to campus-wide audience, receiving 1000+ users within the first week
- Conducted training sessions for 12 developers and provided hands-on practice with project technologies
- Optimized deployment using AWS EC2 and MongoDB, resulting in a 20% reduce in cloud computing costs

SKILLS

Languages: Java, Python, C++, C#, SQL, JavaScript, HTML, CSS, TypeScript

Frameworks: NextJS, Vue, Spring, .NET, Flask, AWS, GCP, Tailwind, PyTorch, Docker, PostgreSQL, MongoDB

Developer Tools: Git, Bitbucket, Jira, Visual Studio, IntelliJ, Eclipse, Postman, MySQL, Apache Maven, Slack

Leadership: UCSB TASA President, UCSB Data Science Club Officer, UCSB Theta Tau Active Member