Edward Zhong

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Education

University of California, Santa Barbara *Santa Barbara, CA*
B.S. in Computer Science *Graduated Dec 2022*
- **Relevant Coursework:** Machine Learning, Artificial Intelligence, Cryptography, Computer Architecture, Computer Communication Networks, Data Science, Database Design, Programming Languages, Object-Oriented Programming, Data Structures and Algorithms

Skills

Languages Python, Java, C++, C, C#, JavaScript, TypeScript, SQL
Frameworks React, Angular, Node.js, PyTorch, NumPy, TensorFlow, Matplotlib, Pandas, ASP.NET, Spring Boot
Technologies Git, Visual Studio Code, Linux/Unix, Azure, Docker, Kubernetes, Jenkins, Travis CI, Jira, Agile Methodologies, MySQL, Oracle

Work Experience

Integuru *San Francisco, CA*
Software Engineer *Jan 2025 – Present*
- Developed API endpoints in Python, enabling secure customer interactions by integrating with internal platform APIs.
- Automated recurring tests with GitHub Actions to ensure seamless functionality of customer-facing and internal APIs.
- Used GitHub Actions to monitor and resolve testing issues, ensuring efficient and high-quality API delivery.
- Implemented frontend changes in React, enhancing UI functionality and improving overall user experience with dynamic design updates.

AJ Tutoring *Palo Alto, CA*
Math and Computer Science Tutor *May 2023 – Present*
- Offer dynamic mathematics and computer science tutoring with a focus on essential problem-solving skills.
- Provide specialized SAT/ACT test preparation, helping students achieve significant score improvements.
- Partner with students, parents, and educators to craft tailored learning journeys aligned with diverse learning styles and career aspirations.
- Stay on the cutting edge of educational trends, integrating relevant insights into tutoring strategies.

Bill.com *Palo Alto, CA*
Engineering Intern *Jul 2019 – Sep 2019*
- Joined the Risk and Compliance team of a leading financial technology company that handles billions in business transactions and payments.
- Led a team to deploy and adopt Google Authenticator for Multi-Factor Authentication, overseeing full-stack design, implementation, and integration, enhancing security for over 100,000 users.
- Integrated Whitepages API to analyze thousands of users and transactions, identifying and thwarting potential fraud incidents.
- Developed backend systems in Java, using Oracle SQL and MySQL databases; version control with Perforce. Built frontend components with Angular (TypeScript) and Node.js. Used Jenkins for continuous integration.

Stanford University *Stanford, CA*
Engineering Intern *Jun 2018 – Sep 2018*
- Collaborated with researchers to optimize services for gene sequencing, gene expression analysis, and genotyping studies as part of research at the Stanford Functional Genomics Facility Lab.

Projects

Draw Letters *Python, Javascript*
https://ezhong0.github.io/drawletters/ *Nov 2022 - Jan 2023*
- Created a web-based app allowing users to draw letters and predict content through machine learning.
- Implemented a Python-based convolutional neural network using TensorFlow, optimizing accuracy and efficiency.
- Integrated interactive drawing canvas using Fabric.js, processing user drawings for accurate predictions.

Arial BugTracker *C#, .NET*
https://github.com/ezhong0/bugtracker *Jan 2022 - Feb 2022*
- Built a robust and intuitive cloud-based web application hosted on Microsoft Azure that effectively tracks and monitors software development progress through a comprehensive ticketing system, enabling users to manage complex projects with ease and efficiency.
- Crafted the application using C# programming language within a .NET framework, and implemented Model-View-Controller (MVC) design principles with ASP.NET Razor syntax for intuitive and user-friendly functionality.
- Implemented Entity Framework Core for CRUD functionality, designed and maintained a MySQL relational database, and developed the frontend using HTML/CSS/JS with Bootstrap, seamlessly integrating it with the backend via REST API.