Joshua Chin

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Work Experience

Amazon (Consumer Payments), Software Development Engineer   August 2022 – Current
Seattle, WA
- Successfully designed and implemented a vendor-facing API, utilizing AWS CDK, ECS Fargate, and API Gateway, resulting in a $1 million revenue increase and handles a daily traffic of 100,000 calls
- Developed and maintained a robust Full-CI/CD pipeline for alpha/beta testing and automatic promotion to production, including auto-rollback, code-review verification, dependency checks, sand-boxing, monitors
- Designed an API enhancement which reduces latencies by 80% and DynamoDB costs by 90% through enhanced data storage and ETL processes

Apex Semiconductors, Software Engineering Intern   June 2021 – August 2021
Santa Clara, CA
- Created a graphical user interface (GUI) that supports chip design processes by visualizing input and output data, increasing design efficiency by 100%
- Designed UI/UX for the application and implemented the GUI from scratch using Python, PySimpleGUI and Tkinter
- Added reusable GUI modules that could minimize the time needed to complete GUI projects in the future

San Jose State University, Computer Science Teaching Assistant   June 2021 – May 2022
San Jose, CA
- Tutored students from SJSU in computer science subjects ranging from introductory CS to advanced data structures and algorithms
- Answered students' questions about their practice problems and coding as well as explained computer science concepts to them

Perksense Inc, Full Stack Development Intern   June 2020 – September 2020
Kuala Lumpur, Malaysia
- Managed and mentored a team of 4 interns, and executed Agile methodologies
- Developed testing infrastructure and created integration testing for 20 controllers for back-end server using Jest, achieving 98% code coverage
- Designed and planned prototype for all-in-one app for restaurants utilizing Node.js and React Native, forming an ecosystem for franchisees, merchants, suppliers and customers
- Secured restaurant service by providing authentication to all controllers using JWT and Firebase

Yee Lee Corporation, Software Engineering Intern   June 2019 – August 2019
Kuala Lumpur, Malaysia
- Created employee facing storefront redemption website, specifically backend, for company of 5000 using the .NET MVC framework and C#

Education

San Jose State University, B.S. Computer Science   Graduation: May 2022
- GPA: 3.9/4.0
- Related coursework: Data Structures and Algorithms, Object-Oriented Design, Computer Architecture, Operating Systems, Machine Learning, Database Management Systems, Programming Paradigms

Skills

- **Programming Languages:** Java, Python, JavaScript/TypeScript, C#, C++, SQL, HTML, Scala
- **Programming Frameworks:** Node.js, React, Spring Boot, Android Studio, .NET MVC, Django, Vue
- **Programming Tools:** Git, Docker, Vim
- **AWS Cloud Platform:** VPC, EC2, ECS, Lambda, API Gateway, S3, IAM, DynamoDB, RDS, SNS, SQS, CloudFormation, KMS, CloudWatch and others

Projects

3D Ray Tracer
- Used C++ and OpenGL to create a pixel ray tracer that generates photorealistic 2D images of 3D objects
- Implemented Blinn-Phong shading, texture anti-aliasing and applied linear transformations.