Vincent Chow

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Objective

Third year computer engineering student with strong communication and collaboration skills with 2+ years of experience in software engineering specialized in both front-end and back-end engineering. Strengths include understanding object oriented design and data structures in Java, many experiences with cloud platforms (including AWS and Google Cloud), and utilizing database technologies like SQL and NoSQL. Seeking an internship for Amazon as a software engineer starting May 2021.

Education

Georgia Institute of Technology | Atlanta, GA *January 2020 – Present*
Bachelor of Science in Computer Engineering, GPA 4.00 Expected Graduation, May 2022

Skills

Programming: Java (proficient), Python (proficient), C/C++ (intermediate), JavaScript (intermediate), React (intermediate)
Software: NI LabVIEW, GitHub, IntelliJ, Visual Studio Code, Jira, MySQLWorkbench, Slack, MatLab
Languages: Chinese (native), English (native)

Experience

Trulight Project | Cedarburg, WI *May – August 2020*
Software Engineering Intern
Start-up developing mobile apps based on algorithms that determine the user's safety based on local, historical criminal records.

- Conducted research on cloud services, which ultimately led to the successful adoption of the Google Cloud Platform (GCP) that resulted in cost reduction by 20% and an increase in productivity by 20%.
- Implemented and directed 100+ of unit tests with four team members and provided them with API documentation for JUnit test, increasing productivity by 30% and project completion status by 5%.
- Built Rest API through spring boot and Open API for the algorithm that determine the user's safety score, that allowed open-source collaboration, which led to an increase in efficiency by 20%.

Global PMX | Jia Shan, China *May – July 2019*
Engineering Intern

- Delivered a presentation to the production team on overall equipment effectiveness (OEE) calculation and maximizing human-computer interaction, increasing productivity by 20%.
- Implemented a more efficient way to cut the materials on Alex Tech-VT08 CNC and Tsugami B0326-II CNC using G-Code after taking into consideration of the metal shape and knives, increasing profit by 30% and reducing cutting time by 30%.

Projects

Marine Robotics *Spring 2020*
Perception Team Member
It is a team-based project building marine robotics for competing in annual RoboBoat competition.

- Implemented a new image classification model for marine robotics using hyper-parameter and image augmentation techniques such as scaling, padding, flipping, adjusting brightness, contrast, and saturation, increasing the prediction accuracy up to 99%.

FoodShed App Development *Fall 2019*
Team Leader for A Team of Four
It is a team-based project building a mobile app in Angular JS that will display what food are in the fridges across campus.

- Successfully planned how to proceed with the FoodShed app development by creating a timeline chart that lists the time frame for each task, scheduling meetings with another student organization and preset to them the progresses, and finding tutorials online, resulting in a 25% increase in productivity.

Relevant Coursework

Data Structures and Algorithms: Design and implement data structures, such as, arrays, linked lists, trees, maps, and graphs and algorithms, such as Dijkstra's algorithm, quick sort, selection sort, BFS, and DFS, in the context of object-oriented programming
Intro to Database Systems: Analyze and design of SQL database systems; Entity relationship model, relational databases, query language, entity and referential integrity constraints, relational schema mapping, database design and normalization
Cloud Computing: Understand and utilize cloud computing for applications; Lambda functions, virtualization, scalability, deployment