Guanming Chen

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Objectives: Seeking for A Full-time New Grad Software Engineering Position Starting May 2023

Education

Georgia Institute of Technology, Atlanta, GA   *08/2021 – 05/2023 (Expected)*

- Master of Science in Computational Science and Engineering (GPA: 4.0 / 4.0)
- Courses: Data Structures & Algorithms, Prototyping Interactive Systems, Intro to Database, Machine Learning, etc.

Civil Aviation University of China, Tianjin, China   *09/2015 – 07/2019*

- Bachelor's Degree of Engineering (GPA: 3.63 / 4.0)

University of California in Los Angeles, Los Angeles, CA   *08/2019 – 09/20219*

- 2019 UCLA Summer Program in Samueli School of Engineering (GPA: 3.65 / 4.0)

Knowledge and Skills

- **Knowledge:** Object-Oriented Programming, Data Structure & Algorithm, Web Services, Software Engineering, Agile
- **Programming Languages:** Java, Python, SQL, C, C++, JavaScript, HTML, CSS
- **Frameworks & Databases:** Node.js, React.js, Flask, D3.js, .NET, Spring Boot, MySQL, MongoDB, SQL Server
- **Cloud Platforms & Tools:** AWS, GCP, Git, Maven, JIRA, IntelliJ, Visual Studio, Tableau BI

Work Experiences

Software Engineering Co-Op in Abarca Health LLC., Florida   *08/2022 – 12/2022 (Expected)*

- **Migrate current web service architecture** to REST for scalability and maintenance ability upgrading, save 60% time when processing the transactions or client request from the platform
- **Build 7 RESTful APIs** under the 4-layer clean architecture, **refine transaction flow** following the new API solution
- Update 35 transactions stored in the SQL databases; create 30+ objects and store procedures for data manipulation
- Improve the functionality to process 5 types of transactions, pass the pipeline test and deploy the solution in 3 stages

Application Developer Intern in Cisco Systems, Inc.   *12/2020 – 06/2021*

- Implemented internal automatic quality-monitoring tool integrated with auto-bot interaction interface using Python
- Committed to the solution design and workflow improvement, the rate of on-time feature delivery was improved by 30% and the total number of bugs per release was decreased by 20%
- Upgraded the application data pipelines including ETL process and analysis approach, enabled the application to automatically analyze quality data from 3 sources in real time, the efficiency was increased by 30%
- Deployed the SQL database and application on servers, responsible for the application maintenance and bug fixing

Personal Projects

Online Search & Recommendation Platform Based on Machine Learning | MongoDB, Flask   *02/2022 – 06/2022*

- Utilized machine learning algorithms to complete the real-time item search and recommendation functions
- Created **backend services via Python Flask** framework; built **MongoDB** and SQL databases to store information
- Conducted and programmed frontend services by JavaScript; designed and visualized UI interface utilizing D3.js

Full-stack Online Enterprise Data Management System | JavaScript, React.js, Node.js, SQL   *01/2022 – 05/2022*

- Pre-processed over 500,000 meta datapoints with 25+ dimensions using PySpark on **AWS** platform
- Established **MySQL** databases; created backend services and user authentication modules utilizing **Node.js**
- Prototyped interaction interface via **HTML / CSS**, optimized the frontend services through **React.js**

Leadership

Vice President of the Student Organization, Enactus in CAUC   *05/2018 – 05/2019*

- Managed overall project operations; contributed to 3 non-profit projects to improve community living quality
- Led team to provide demand research and data-analysis-based non-profit support with community services and hospitals