

# Guanming (Kevin) 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#, HTML / CSS, JavaScript
- **Frameworks & Databases:** Node.js, .NET, Spring Boot, React.js, Flask, D3.js, MySQL, MongoDB, SQL Server
- **Cloud Platforms & Tools:** AWS, GCP, Git, Maven, JIRA, IntelliJ, Visual Studio, Tableau BI

## Work Experiences

**Software Engineering COOP in Abarca Health LLC., Florida**

*08/2022 – 12/2022 (Expected)*

- **Migrate old web service architecture** to REST; **improve transaction flow** following new API workflow
- **Build and refine RESTful web APIs** under the 4-layer clean architecture to serve multiple clients
- Update entities in databases; create objects and modules through SQL programming for data recording
- Integrate and correct platform portals, features and modules; deploy and test solutions to assure quality

**Application Developer Intern in Cisco Systems, Inc.**

*12/2020 – 06/2021*

- Implemented **automatic quality-monitoring application** integrated with auto-bot interaction interface using Python
- Committed to application design and workflow improvement, the rate of on-time feature delivery was improved by 30% and the total bugs number per release was decreased by 20%
- **Upgraded the application data pipelines** including ETL process and analysis approach that enabled the application to automatically analyze quality data from 3 sources in real time, the efficiency was increased by 25%
- Deployed the database and application on Linux server, responsible for the application maintenance and bug fixing

## Personal Projects

**Online Search & Recommendation Platform Based on Machine Learning | MongoDB, Flask**

*02/2022 – 06/2022*

- Processed and cleaned data from 100,000+ raw datapoints with 15+ dimensions on GCP platform
- Utilized machine learning algorithms to complete the real-time item search and recommendation functions
- Created **backend services via Flask** framework; built **MongoDB** and SQLite databases for backend connection
- Programmed frontend services by JavaScript; designed and visualized user interaction 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**
- Optimized frontend services through **React.js**; designed and conducted the interaction interface via HTML / CSS

## 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