

# Guanming (Kevin) Chen

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## Education

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### Georgia Institute of Technology, Atlanta, GA

*Aug 2021 - May 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

*Sep 2015 - Jul 2019*

- Bachelor's Degree of Engineering (GPA: 3.63 / 4.0)
- Scholarship & Award: Academic Outstanding Scholarships in 4 consecutive years; Innovation & Entrepreneurship Individual Award

### University of California in Los Angeles, Los Angeles, CA

*2019 Summer*

- 2019 UCLA Summer Program in Samueli School of Engineering

## Knowledge and Skills

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- **Knowledge:** Data Structures and Algorithms, Web Application Development, Software Engineering, Agile Methodology (Scrum)
- **Programming Languages:** Java, Python, SQL, C, C#, HTML / CSS, JavaScript
- **Web Frameworks & Databases:** Node.js / Express.js, Flask, .NET, React.js, MySQL, MongoDB, SQL Server
- **Cloud Platforms & Tools:** AWS, GCP, Azure DevOps, Git, JIRA, Tableau

## Work Experiences

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### Software Engineering COOP in Abarca Health FL, LLC., Fort Myers, Florida, US

*Aug 2022 - Now*

- Propose solution designs under the 4-layer clean architecture, deploy and test solutions to assure quality
- Update entities in databases, create objects and features through C# and SQL programming for data manipulation
- Migrate web services from SOAP to REST in C# to improve efficiency and maintenance ability
- Refine web-based platform portals and modules using C# integrated with .NET framework

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

*Dec 2020 - Jun 2021*

- Constructed automatic monitoring system in Python from over 1,000,000 data points and 20+ quality dimensions
- Contributed to application system design and workflow improvement, the total number of bugs was decreased by 20% and the rate of on-time feature delivery was improved by 30%
- Deployed and maintained the application on Linux; analyzed real-time data for feature quality using JavaScript and SQL

### Data Intern in Airbus Final Assembly Co., Ltd.

*Jan 2019 - Jun 2019*

- Mined daily production data and predicted the periodical productivity, the predication accuracy was increased by 15%
- Supported daily progress assessment, delivered performance reports cooperated with senior engineers

## Project Experiences

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### Full-stack Enterprise Online Data Management Platform | AWS, React.js, Node.js, HTML / CSS

*Jan 2022 - May 2022*

- Cleaned and pre-processed over 500,000 meta data with 25+ dimensions using PySpark on AWS cloud platform
- Established user authentication flow, completed backend connection utilizing Node.js / Express.js frameworks
- Conducted frontend service through React.js, improved interaction interface via HTML / CSS

### Machine-learning-based Online Search & Recommendation Engine | GCP, JavaScript, Flask, MongoDB *Feb 2022 - Jun 2022*

- Performed data processing and dimension reduction of 100,000+ raw data with 15+ dimensions on GCP cloud platform
- Built MongoDB database, connected backend service and developed restful APIs via Flask web framework
- Programmed frontend development by JavaScript, visualized user interaction utilizing D3.js

## Leadership

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### Vice President of the Student Organization, Enactus in CAUC

*May 2018 - May 2019*

- Managed overall project operations, established and committed 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