

# Colin B. King

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## EDUCATION

### Rice University – Houston, TX

Expected May 2022

Bachelor of Science in Computer Science, Minor in Business

GPA: 3.95/4.0, President's Honor Roll

**Relevant Coursework:** Algorithms/Data Structures, Program Design, Advanced OOD, Parallel Programming, Computer Systems, Data Science Models/Tools, Operating Systems, Compilers, CS Ethics, Comp. Programming in Chemical Eng.

## TECHNICAL EXPERIENCE

### Microsoft – Software Engineering Intern, Azure Core – Seattle, WA

May 2021 – August 2021

- Created a service in C++ and C# to query UEFI NVRAM variables in Azure nodes, now deployed across 3M+ nodes.
- Implemented a data pipeline to transmit firmware status and related information to backend Kusto databases.
- Worked as a core member of the One Fleet Node tea, implementing tools for firmware lifecycle management.

### CDK Global – Software Engineering Intern – Austin, TX

June 2020 – August 2020

- Rewrote a legacy API by implementing an asynchronous, reactive version with Spring Webflux and Reactor Kafka.
- Implemented numerous features, tests, and bugfixes across multiple projects in an enterprise data platform.
- Pushed Java and PostgreSQL based features to production; became proficient with Spring Boot, Liquibase, Docker.
- Developed Agile skills as a member of a backend engineering team using Jira, Bamboo, Confluence, and Bitbucket.

### Me.nu – Cofounder, Backend Lead – Houston, TX, *eatwithmenu.com*

April 2020 – Present

- Designed and built out backend for a mobile/web application projected to support hundreds of users.
- Implemented a REST API to interface with a Flask backend using MongoDB and Redis, deployed with AWS EB.
- Negotiated with and interviewed local business owners, conducted market research to optimize product fit.

### Rice University – Teaching Assistant in CS/ELEC – Houston, TX

August 2019 – Present

- Instructed and assisted students in the following courses: Introduction to Program Design (Java, Python), Fundamentals of Computer Engineering (C), and Computational Programming for Chemical Engineering (MATLAB).
- Provided feedback, graded students' code submissions/assessments, and addressed individual student needs.

## PROJECTS

### Roomy – PennApps XXI, Top 10, *devpost.com/software/aware-2xhw9b*

Developed a web app providing online themed rooms where users interact remotely. Features live updating user statuses, widgets that sync in real time, and Zoom/Spotify integration. Built out the backend with Flask/Postgres.

### Course Evaluation Analytics – Rice Datathon 2020 Overall First Place, *github.com/colinbking/riceDatathon2020*

Created a tool for Rice University's office of the registrar to gauge instructor and course effectiveness by extracting metrics from 20 years of student comments. Focused on Model creation and data visualization.

### FlightCare – TAMUhack 2021 American Airlines Challenge Winner, *github.com/colinbking/FlightCare*

Built a mobile app promoting healthy habits on flights; included a live updating flight map and attendant messaging.

## SKILLS

**Languages/Technologies:** Python, Java, C, C++, SQL, C#, Kusto, MongoDB, Spring Boot, Liquibase, Flask, AWS (EC2, S3, EB, RDS), GCP (App Engine, CloudSQL), Redis, Docker, Kubernetes, StreamSets, Kafka (Limited), Apache Spark (Limited)

**Familiar with Agile development practices and RESTful API design**

**Language Skills:** English, Chinese (Mandarin), Korean

## LEADERSHIP AND ACTIVITIES

### Private Computer Science Tutor

Teaching clients CS principles including algorithms/data structures and program design via project-based learning.

### Rice Society of Asian Scientists and Engineers (SASE) – President

Leading by organizing technical development/networking events and Rice attendance at SASE national conference.

### Baker College – Spirit Event Chair

- Managed a \$10,000 budget to organize events serving over 350 people and lead a student committee.