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, Program Design, Advanced OOD, Parallel Programming, Computer Systems, Tools and Models for Data Science, Operating Systems, Compilers, Computational Programming in Chemical Engineering, CS Ethics

TECHNICAL EXPERIENCE

Microsoft – Software Engineering Intern, Azure Core – Seattle, WA   May 2021 – August 2021
- Implemented a data pipeline to transmit firmware status and related information to backend Kusto databases.
- Created tools in C++ and C# to query UEFI NVRAM variables in Azure nodes, now deployed across 3M+ nodes.
- Worked as a core member of the One Fleet Node team implementing tools for firmware lifecycle management.

CDK Global – Software Engineering Intern – Austin, TX   June 2020 – August 2020
- 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.
- Improved a legacy API by implementing an asynchronous, reactive version with Spring Webflux and Reactor Kafka.
- 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, MATLAB, SQL, Spring Boot, Liquibase, MongoDB, Flask, AWS (EC2, S3, EB, RDS), GCP (App Engine, CloudSQL), Kusto, Azure, 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
- Taught clients CS principles including algorithms/data structures and program design via project-based learning.

Rice Society of Asian Scientists and Engineers (SASE) – President
- Lead as president by organizing the SASE national conference trip and technical development/networking events.

Baker College – Spirit Event Chair
- Managed a $10,000 budget to organize events serving over 350 people and lead a student committee.