

Neil Kaushikkar

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EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Science, GPA: 3.9/4.0

May 2024

- Engineering James Scholar, Dean's List
- Relevant Coursework: Data Structures & Algorithms, System Programming, Operating Systems, Computer Architecture, Probability & Statistics for Computer Science, Database Systems, Artificial Intelligence

SKILLS

Languages: C, C++, Rust, Java, Python, Bash, SQL, NoSQL (MongoDB, Neo4j)

Frameworks, Tools, & Platforms: Docker, Flask, Spring, Azure Cloud, Google Cloud Platform, Linux/Unix

Other Skills: Agile/Scrum, Git, CI/CD Pipelines (Jenkins, Buildkite), MVC/MVT, Test Automation

WORK EXPERIENCE

Twilio

San Francisco, CA

Software Engineering Intern

May 2022 - Aug 2022

- Containerized & deployed 4 Scala REST services from the core billing pipeline in production as part of the engineering team's migration from Amazon Linux 1 to AL22, reducing boilerplate deployment code by 70%
- Optimized internal Scala, Python, & Java billing engineering libraries for a 25% reduction in unactionable pages to on-call engineers by controlling outbound network traffic in multi-threaded code
- Proactively reduced billing engineering outage response times by updating a Scala billing services to report historical changes in billable items & developed Spark jobs to aggregate audit metadata & find outage sources

Country Financial

Champaign, IL

Software Engineering Intern

Jan 2021 - Aug 2021

- Designed an end-to-end system to automate authenticating clients in call centers with Azure Natural Language Understanding & Speech-to-Text saving over 200 hours/week of manual customer validation
- Developed a REST API with a Java-based Azure Functions App & a PostgreSQL database to securely stream audio between cloud & on-premise systems & cross-check callers' spoken identifying information
- Re-platformed Java Spring Boot applications to Azure Cloud using Traffic Manager, Redis Caching, & Service Bus Queues, assisting the company's transition to the cloud & saving \$6 million in operating costs

NASA Ames Research Center

Mountain View, CA

Software Engineering Intern

Jun 2019 - Aug 2020

- Formulated a ranking algorithm to rank drones for a specific task, favoring well-rounded performances
- Developed Python code to generate building instructions & calculate performance benchmarks for all modes of modular drones, assisting NASA's Aeronautics Research Institute's UAV Traffic Management Initiative
- Co-wrote a [conference paper](#) with Dr. Parimal Kopardekar for the AIAA 2020 Multidisciplinary Design Optimization Forum detailing this project's work in optimizing modular drones

LEADERSHIP

Undergraduate Instructor

Champaign, IL

CS 128-H: Introduction to Computer Science II Honors

Jan 2022 - Present

- Lead instructor for an undergraduate course at UIUC that supplements the introductory CS curriculum
- Presenting weekly lectures covering memory safety & concurrency in the Rust language to 200 students

Instructor

Champaign, IL

Gies College of Business Disruption Lab Incubator Program

Dec 2021 - Present

- Teaching 20 undergraduates interested in CS in non-technical majors the fundamentals of programming
- Delivering weekly lectures & mini-projects to teach syntax & proper usage of Python, Bash, Git, & Flask

Course Assistant

Champaign, IL

CS 196: Freshman Honors

Jan 2021 - Dec 2021

- Created coding homework with automated grading to teach Bash, Python, & Rust to over 300 students