Rohin Bhasin

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EDUCATION

University of Illinois Urbana-Champaign Urbana-Champaign, IL

BS/MCS in Computer Science · GPA: 3.95 · James Scholar · Chancellor's Scholar BS/MCS Dec 2020

<u>Relevant Coursework</u>: Distributed Systems, System Programming, Algorithms & Models of Computation, Computer Security, Machine Learning, Applied Cryptography, Communication Networks, Data Structures, Software Design, Computer Architecture

EXPERIENCE

Facebook Reality Labs New York, NY

Software Engineering Intern May 2020 - Aug 2020

- Intern on the CTRL-X Team for CTRL-labs (acquired), a division of FRL building a neural inferface platform.
- Designed and built a remote docker build service using Go, Docker, BuildKit and Python, improving build times by 85%.
- Deployed new service on Kubernetes while handling load balancing, autoscaling, authentication, and metric tracking.

Shoreline IoT Remote

Software Engineer, Part-Time Sep 2019 - Mar 2020

- Shipped a firmware module and Python service to enable unsupervised anomaly detection for industrial factory devices.
- Built custom firmware machine learning wrapper around TensorFlow Lite Micro to send device data to the cloud, preprocess data, and run models on the edge using C/C++.

Lyft San Francisco, CA

Software Engineering Intern May 2019 - Aug 2019

- Built a feature with Python and Postgres that allows teams to specify arbitrary user targeting criteria for their experiments.
- Designed and implemented a feature to allow teams to create their own validation logic for experiments, thereby greatly increasing the reliability of A/B tests in production.
- Built an automated system for handling metric computation failures in Airflow across all of Lyft's ETL pipelines.

Jump Trading Champaign, IL

Software Engineering Intern Jan 2019 - May 2019

- Built regression suite for internal market data visualization software using parallel, real-time processing of data feeds in C++.

Impinj Seattle, WA

Software Engineering Intern May 2018 - Aug 2018

- Enhanced inventory jobs in the ItemSense API to more efficiently sweep for RFID tag locations.
- Extended the ItemSense API with support for querying by multiple filters and multiple jobs for increased customer ease-of-use.
- Designed and implemented telemetry infrastructure to intelligently collect data from running instances of ItemSense using multiple AWS tools for production deployment.

Capital One Champaign, IL

Software Engineering Intern Jan 2018 - May 2018

- Implemented a product recommendation system for Menard's website based on products in a shopper's cart.
- Used Python, R, and Postgres to implement, test, and compare multiple algorithms' effectivness with shopper transaction data.

LEADERSHIP

Department of Computer Science University of Illinois

Teaching Assistant Jan 2018 - Present

- *Jan 2019 - Present*: **CS 241, System Programming:** Teach lab sections, hold office hours, and develop assignments for operating systems concepts including multithreading, networking, memory management, filesystems, processes, and more.
- *Aug 2019 - Dec 2019*: **CS 461, Computer Security:** Hold office hours, write and grade exam questions, and develop assignments for computer security concepts within application security, web security, cryptography, and network security.
- *Aug 2018 - Dec 2018*: **CS 233, Computer Architecture:** Teach lab sections and hold office hours for computer architecture concepts including computer processor design, assembly programming, pipelining, caching, memory, multicore, and more.
- *Jan 2018 - May 2018*: **CS 126, Software Design Studio:** Teach and grade students in weekly code reviews focused on topics including software design, test-driven development, control flow, style, and proper object-oriented programming.

HackIllinois University of Illinois

Outreach Director & Staff Sep 2017 - May 2019

- Lead a team of 15 members to coordinate all sponsor and mentor outreach efforts for HackIllinois 2020.
- Work personally with 30+ corporate sponsors and 100+ open source contributors to plan UIUC's annual hackathon.

SKILLS

Languages: Python, C, C++, Go, Java, JavaScript (Node.js, React), SQL, HTML/CSS

Tools & Technologies: Docker, Kubernetes, gRPC, TDD & BDD (JUnit, Cucumber), Spring, Android, PostgreSQL, MongoDB, MariaDB, NumPy, Various AWS Tools