Rohin Bhasin

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EDUCATION

University of Illinois Urbana-Champaign   Urbana-Champaign, IL

BS in Computer Science · GPA: 3.96 · James Scholar · Chancellor's Scholar   B.S. May 2020

<u>Relevant Coursework</u>: System Programming, Algorithms & Models of Computation, Computer Security I, Machine Learning, Data Structures, Programming Languages & Compilers, Software Design, Computer Architecture, Text Information Systems

EXPERIENCE

Jump Trading   Champaign, IL

Software Engineering Intern   *Jan 2019 - Present*

- Built regression and testing suite for internal market data visualization software using C++ and parallel, real-time processing.

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.
- Worked with test-driven development and behavior driven-development to develop with Java, Spring, MariaDB, and Docker.

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 and R to implement and test multiple algorithms on their effectiveness with shopper transaction data from PostgreSQL and AWS.

OTCR Consulting   University of Illinois

Technical Consultant   *Sep 2017 - May 2018*

- **Spring 2018:** Built a candidate-filtering application for a recruiting company with Python, SQLite, and Flask and helped build a serverless automated emailing application with Node.js and AWS Lambda.
- **Fall 2017:** Defined a market entry strategy for a Chicago-based startup with competitor analysis and a go-to-market timeline.

The University of Chicago Institute for Molecular Engineering   Chicago, IL

Research Assistant & Data Analyst Intern   *Jul 2017 - Aug 2017*

- Designed and implemented a data analysis module (Python, NumPy) used a graduate lab to analyze molecular simulations.

LEADERSHIP

Department of Computer Science   University of Illinois

Course 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 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 12 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 Staff   *Sep 2017 - Present*

- Contact and work with 30+ company sponsors to fund, set up, and manage UIUC's annual, open source hackathon.
- Reach out and coordinate mentorship and connection of attendees to 100+ mentors from the Open Source community.

PROJECTS

Pick-Six: Android application for real-time NFL game polling and live stats, built with Android & Firebase.

To-Do: Full-stack web application for managing tasks, built with Node.js, Express.js React, & MongoDB.

SpreadBread: iOS application/Node.js server to help volunteers deliver perishables from restaurants to soup kitchens.

SKILLS

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

Tools & Technologies: Git, TDD & BDD (JUnit, Cucumber), Docker, Spring, Android Studio, Flask, Express, PostgreSQL, MongoDB, MariaDB, NumPy