

ALI MIR

EDUCATION

Brown University, Providence, RI

Candidate for Bachelor of Science, Computer Science, expected graduation May 2019

Relevant Coursework:

Object-Oriented Programming, Data Structures and Algorithms, Introduction to Systems, User Interfaces/User Experience, Software Engineering, Discrete Structures, Design and Analysis of Algorithms, Artificial Intelligence, Distributed Computer Systems

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September 2015 – Present

SKILLS

- Proficiency in Java, Python, Javascript, Go, self-studied in Swift, understanding of C, HTML, CSS, Angular.js, React
- Understanding of Docker, SQL, MongoDB
- Knowledge of distributed systems concepts (fault-tolerance, consensus)

EXPERIENCE

Software Engineering Intern, MongoDB Inc.

May 2018 – August 2018

- Interned as a backend engineer on the Atlas team, MongoDB's database-as-a-service platform, which provides fully automated MongoDB services on AWS, Google Cloud, and Azure, allowing users to provision machines running MongoDB through a UI or public API.
- Enabled data encryption at rest for Atlas Enterprise users using Google Cloud Key Management Services or Azure KeyVault. This allows users to encrypt data sitting in MongoDB instances using their own preferred key management service.
- Sped up machine configuration changes on Google Cloud and Azure machines by updating them in place, instead of provisioning new machines. This could be performed in 20 minutes, instead of potentially taking days.

Software Engineering Intern, Adobe Systems

May 2017 – August 2017

- Integrated into the Quality of Service team to build internal tools and dashboards to help monitor outages of Adobe services worldwide. Worked primarily with full-stack development, by developing with Angular.js on the front end and Node.js/PHP on the backend.
- Helped work on team side projects, such as a Service Desk Slackbot to administer internal help to Adobe employees.

Team Lead of Brown Space Engineering, Software Team

September 2016 – Present

- Implemented ground support software for our cube satellite that was deployed off the International Space Station in July 2018. This includes creating an API for satellite data using Node.js and Express. Helped lead a team of 10 students working on software projects for the satellite.

Member of Hack@Brown Organizing Team, Logistics

September 2016 – Present

- Joined the Hack@Brown team to help organize the annual hackathon on campus and promote inclusion and diversity in computer science.

Teaching Assistant, CS15: Introduction to Object-Oriented Programming

August 2016 – December 2016

- Hired as a TA for the introductory CS class.
- Held TA hours every week, to help students with Java projects and understanding of object-oriented programming.

President of ABC School for Underprivileged Children

August 2012 – July 2015

- Lead a team that supported a school for underprivileged children in a slum in Dhaka, Bangladesh. Helped the school expand its enrollment, and assisted in self-sustaining practices such as growing a vegetable garden.

Participant, Hack@Brown

February 2016

- Attended annual Hack@Brown hackathon located in Providence, RI. Assisted/learned about implementing back-end servers with Python, utilizing Flask as a framework.

PROJECTS

Sesh

A web app that utilizes Spotify Web API to allow for seamless collaborative music playlists at a social event. Worked with back-end development in Java, database components, and deployment.

Puddlestore

A fault-tolerant, consistent, distributed file system written in Go that allows users to create, read, write, and remove files through a command line interface. Utilized implementations of the Raft consensus algorithm, Apache Zookeeper membership server, and Tapestry distributed hash table.

SlackVideoSearch

A Slack app that allows users to return the first video of a YouTube search, and send it as a message in a Slack channel. Written in Python and utilizes my own REST API, powered by Google App Engine.

INDEPENDENT ONLINE COURSES

The Complete iOS and Swift Course – Rob Percival, *Udemy*