Saushthav Saxena

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EDUCATION

• Binghamton University, SUNY, Watson School of Engineering

Master of Science in Computer Science; 3.89/4.00

Binghamton, NY
August 2018 – May 2020

• Dhirubhai Ambani Institute of Information Technology

Bachelor of Engineering in Information and Communication; 6.22/10.00

Gandhinagar, India August 2010 – May 2014

TECHNICAL SKILLS

- Programming Languages: Java, JavaScript (ES6), Ruby, C, Python, Haskell
- Web Development/DB: HTML5, Bootstrap, jQuery, PostgreSQL, GraphQL, Scss, Slim, MongoDB, Socket.io
- Frameworks/Tools: Ruby on Rails, ReactJS, ReduxJS, NodeJS
- Testing/Automation: Selenium, RSpec
- Graduate Coursework: Operating Systems, Data Structure and Algorithms, Computer Architecture, Programming Languages, Distributed Systems, Design Patterns, Machine Learning, Programming for the Web, Communication Networks

EXPERIENCE

• RPA Electronics, Binghamton, NY | Graduate Research Assistant

January 2019 - May 2020

- Developed custom Lorawan network stack for class-A devices after research. Applied data models to collected data for real-time classification and insight of sensor data.
- Researched performance, scope and security of Lorawan Network Stack for low power IoT end nodes.
- Measured communication latency for event-driven discrete event systems through RDMA. Benchmarked and integrated system with RDMA.
- Reviewed code, leaded discussions and code walks, proctored and graded students in High Performance Computing.
- Programmed with: C, LoraWan, Unix Sockets, Arduino/Rasberry-Pi, RDMA, MPI, Multithreading, Unix programming

• Keepworks Technologies Limited, Bengaluru, India | Full Stack Developer May 2015 - July 2018

- Worked with designers and team members to develop single-page and monolithic, cross-browser, cross-platform compliant, RESTful web applications in agile-minded environment.
- Built front-end of applications using traditional as well as using react, redux technology stack.
- Developed and managed well-functioning databases (Relational, NoSql) and MVC based backend applications.
- o Designed, implemented, deployed, and maintained new APIs from scratch. Integrated third-party APIs, libraries.
- Experienced with SAML, web Single Sign-on (SSO), OAuth and related authentication/authorization technologies.
- o Integrated various payment gateways like stripe, paypal, paytm, public banks etc. to applications.
- Experienced with load balancing, pub-sub based message queues, highly available application architecture.
- Deployed applications to production using Aws, Heroku.
- Programmed with: Rails, React, Redux, GraphQl, jQuery, Ajax, Html, Bootstrap, Sass, Slim, Github,
 Rspec, Heroku, Nginx, AWS (S3, EC2), Webpack, Grunt, Gulp, Foreman

- o Managed script failures, automation scripts, identified code gaps and fixed bugs for cloud tool Viper.
- Developed backend for a banking application with factory pattern. Designed the system as part of company training.
- o Programmed with: Dot Net, Python, Selenium, Jira

ACADEMIC PROJECTS

- Key-value store with configurable consistency: Implemented a key-value store borrowing design from DynamoDB and Cassandra having configurable consistency level. Impemented hinted-handoff, read-repair mechanism for eventual consistency and google protocol buffer for communication.
- Apex simulator: Implemented simulators for inorder and out of order apex pipelines with data forwarding, register renaming, branching and integer, float, load/stores functional units.
- Http chord server: Programmed multithreaded server using unix sockets. Server was used to implement chord p2p distributed hash table.
- Lexical Analyser: Built a parser with semantic type checking for a context free grammer similar to C language.