Rakin Uddin

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Skills

Languages: Java, Python, C, C#, TypeScript, JavaScript, NodeJS (ES6), React, Redux, JSON/XML, HTML/CSS, AngularJS, Bash/PowerShell, Linux, SQL, Scheme, Haskell

Databases: MongoDB, Oracle Database, PostgreSQL, MySQL

Cloud Frameworks: AWS (API Gateway, Lambda, VPC, S3, ECS, EC2/Fargate, CloudFormation, Cognito, RDS), Microsoft Azure (ARM, Automation, DSCs)

Testing: Postman, PyUnit, JUnit, GDB, HUnit, HP QuickTest Professional, black-box/white-box, regression, user-acceptance testing

Version Control: Git, Subversion, Team Foundation Server

Experience

Software Engineer   Jan 2018-Present
Thomson Reuters   Toronto, Canada

- Developed an internal BI ingestion and visualization platform for managers to track and measure 1000+ metric items from 10+ teams
  - Designed with containerized, server-less architecture with AWS Lambda (NodeJS), RDS (PostgreSQL), API Gateway, ECS and Metabase
  - Enforced API security with AWS Cognito
  - Automated deployments with AWS CloudFormation and Serverless Framework
- Created microservices in TypeScript to extract 100+ metric items from GitLab and JIRA each day

Undergraduate Teaching Assistant   Sept 2017-Present
University of Toronto Scarborough   Toronto, Canada

- Managed classroom sessions of 30+ students. Reviewed relevant course concepts along with examples to further deepen students' understanding of material
- Graded assessed work ranging from quizzes to midterms and exams
- Invigilated assessments to enforce academic integrity requirements
- Teaching Assistant for the following courses:
  - CSCC43 - 3rd year computer science databases course
  - CSCC24 - 3rd year computer science course introducing functional programming
  - MATA29 - 1st year calculus for students in life science

Software Developer (Full Stack)   May 2017-Aug 2017
Ontario Ministry of Education   Toronto, Canada

- Took ownership of 2 data-driven applications, delivering new features using XML, JSON, HTML/CSS, AngularJS, C# and SQL to be used by 150+ board users across Ontario

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- Collaborated with PMs and QA Leads to resolve defects across 5+ applications and the underlying framework
- Developed many asynchronous backend services in C# and LINQ which reduced application loading time by 3x
- Introduced a modular, scalable XLSX parsing library in C# enabling developers to implement customized Excel file upload jobs for their applications

Cloud Infrastructure Developer (DevOps)   Sept 2016-Apr 2017
Ontario Ministry of Education   Toronto, Canada

- Engineered and implemented secure, scalable, multi-tier cloud infrastructure along with another teammate using the Microsoft Azure IaaS platform
- Developed automated scripts in Batch files and Windows PowerShell, one of which reduced operational costs by 52% in 4+ Proof-of-Concept systems
- Integrated Infrastructure as Code (IaC) processes by capturing state and configuration of PoC systems into JSON templates, enabling one-touch deployment of infrastructure

Application Support Analyst   Sept 2016-Dec 2016
Ontario Ministry of Education   Toronto, Canada

- Developed automated test cases using Oracle SQL Developer/PL-SQL, applying reusable and scalable design principles
- Performed automated regression and UAT testing with HP Quality Centre and HP-Unified Functional Testing for upcoming software releases
- Collaborated with a team of 12 members to perform manual UAT testing on new features in 3+ large application stacks before approaching deadlines

Education

University of Toronto Scarborough   Anticip. Grad. Date: Apr 2019

- Hon. B.Sc. in Computer Science, Specialist (CO-OP) in Software Engineering, 3rd Year
- Relevant Undergraduate Coursework: Introduction to Computer Science I and II (Python), Software Design (Java), Software Tools and Systems Programming (C), Principles of Programming Languages (Scheme, Haskell)

Projects

NewNews – Web-based social news aggregation app   Aug 2016-Sept 2016

- Web application created using MEAN Stack. Users can register for an account and add content through valid URLs. They can also like and comment other posts
- Programmed input fields for content as well as functional buttons in HTML/CSS and AngularJS 1.5 – applied MVC design pattern to update client-side view of application
- Used Node.js and Express.js to develop routes between the AngularJS side and the MongoDB database side