Adam M. Rahman

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EDUCATION

Wesleyan University
Sept. 2016 – May 2019

B.A. Computer Science, Theater; 3.4/4.0

Graduated May 2019; Patricelli Center Fellow; Deans' List Spring 2017

Relevant Coursework: Randomized Algorithms, Algorithms & Complexity, Functional Programming, Computer Networks, Design of Programming Languages, Proseminar in Audiovisual Machine Learning

WORK EXPERIENCE

IBM
July 2020 – Present

Staff Software Developer

- Develop, execute, and maintain continuous integration and regression tests for z/OS mainframe software components, including Docker with Z Container Extensions, OpenShift Container Platform on Z, and z/OS REST APIs
- Orchestrated CI test automation infrastructure with Ansible and Jenkins to run health checks and test workloads across a series of on-premise mainframe test hardware
- Developed and ported test utilities with Metal C, z/OS High Level Assembler, and Golang to exploit z/OS low-level components and execute test utilities like Grafana k6 on native hardware
- Conduct daily monitoring and maintenance of mainframe test systems, including mounting filesystems, installing products including Conda, Nodejs, and OpenShift, and troubleshooting system dumps and traces in coordination with other developers and tester

Buildly
Sept. 2019 – Nov. 2019

Software Developer, Intern

- Implemented bugfixes, unit tests, and refactored features for Buildly's Django backend in order to connect multiple microservices to a single endpoint, manage multiple databases, and incorporate self-documenting API specifications
- Maintained and refactored end-to-end test suite for frontend and backend with the Robot framework
- Communicated with CEO and CTO daily about product roadmap and development guidelines

UNICEF
Dec. 2018 – Feb. 2019

Software Developer, Intern

- Implemented utilites to retrieve road networks for countries and compute distances between coordinates in large geospatial datasets with machine-learning and networking libraries
- Optimized algorithm performance to improve computation speed by thousands of times across millions of geospatial points
- Provisioned a Docker image bundled with these utilities and additional libraries for Magicbox developers and data scientists

Kurani Architecture
June 2018 – August 2018

Software Developer, Intern

- Integrated Raspberry Pi sensor data and IBM Watson Machine Learning predictions in prototype IoT dashboards
- Prototyped learning feed with content scraped from TEDEd
- Pitched to and collaborated with CEO on IoT implementation in learning space architecture

PROJECTS

Magicbox Geospatial Routing API
July 2019

Scikit-learn, Django, Docker, OpenAPI | magicbox-routing.herokuapp.com

- Implemented a geospatial computation microservice for UNICEF's Magicbox platform, with endpoints to compute distances between geographic coordinates and retrieve roads as graph networks

RESP: Responsive Emotional Support Protocols
June 2019

Node, Express, React, MongoDB | resp-angelhack.herokuapp.com

- Implemented RESTful backend server to check-in natural disaster survivors with Typeform webhooks, store them in a database, and query for information about nearby health facilities with the Healthsites.io API
- Designed a frontend with an embedded Typeform and databases for checked-in survivors and local health facilities
- Winner of the IBM Call for Code Challenge at AngelHack Manhattan

TECHNICAL SKILLS

LANGUAGES	Python, JavaScript (ES6+), Java, HTML5, CSS3, Bash
CONCEPTS	RESTful API Design/Integration, MVC Architecture, Agile
FRAMEWORKS	Django, Flask, Express, React, Vue, Jest, Robot
TOOLS	Git, Docker, Kubernetes, Heroku, Google Cloud Platform (GCP), Amazon Web Services (AWS)
DATA	PostgreSQL, GraphQL, MongoDB
TESTING	Unit, Integration, End-to-End