

# Adam Rahman

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## EDUCATION

### Wesleyan University

Sept. 2016 – May 2019

B.A. Computer Science, Theater; 3.5/4.0

Graduated May 2019; Patricelli Center Fellow; Deans' List

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

## WORK EXPERIENCE

### 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

### Kite

Sept. 2019 – Nov. 2019

Code Curator

- Composed over 30 code samples adhering to Python best practices to answer the most frequently asked programming questions

### UNICEF

Dec. 2018 – Feb. 2019

Software Developer, Intern

- Implemented utilities 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
- Pitched to and collaborated with CEO on IoT implementation in learning space architecture

### Wesleyan Local Co-Op

Sept. 2017 – Feb. 2019

Programmer

- Implemented web and command-line utilities to retrieve Qualtrics survey data, compute share prices for participants, and output a spreadsheet for co-op coordinators to determine total shares and money owed per-person

## PROJECTS

### Curbside Chaos: Mapping Street Utilization in NYC

August 2019

Pandas, Shapely, React

- Implemented solution to [geocode and visualize over 30,000 location points](#) from NYC OpenData's parking location and 311 report datasets to map street and curbside usage by district, completed for BetaNYC's Mobility for All Abilities Hackathon

### Magicbox Geospatial Routing API

July 2019

Scikit-learn, Django, Docker, OpenAPI | [magicbox-routing.herokuapp.com](https://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](https://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