Kuber Sethi

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EDUCATION

RUTGERS UNIVERSITY
BS in Computer Science
Expected May 2021 | New Brunswick, NJ

RELEVANT COURSEWORK
- Design and Analysis of Algorithms
- Data Structures and Algorithms
- (Graduate Course) Intro to Artificial Intelligence
- Systems Programming
- Computer Architecture
- Principles of Programming Languages
- Introduction to Data Science
- Discrete Structures & Probability

SKILLS

PROGRAMMING LANGUAGES
Python (Flask, Sanic, Alexa SDK, PySC2
Java (Spring)
JavaScript (ES6) Express, React, Redux, Vue.js, Node.js, Angular.js
C/C++ (Ncurses)
HTML/CSS
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TOOLS / TECHNOLOGIES
Git, Linux, Redis, Docker, Jenkins, RabbitMQ, Terraform, Celery, MongoDB
AWS (Boto3, Fargate, Lambda, ECS)

LEADERSHIP

FIZZBUZZ (CS CAREER DEVELOPMENT)
- President of one of the largest CS organizations at Rutgers (150+ students engaged by org initiatives).
- Established an interview prep program to help students deal with interview anxiety, and coordinated with companies to help hire Rutgers students.
- Helped lead and organize 10+ events per academic semester for the 2019-2020 academic year.

USACS (UNDERGRADUATE STUDENT ALLIANCE OF COMPUTER SCIENTISTS)
- Hacker Ambassador for 2018-2019 year helping coordinate hackathon travel and attendance with hackathons like PennApps, YHack, HackNY, HackPrinceton, and more.

EXPERIENCE

ANCESTRY | Software Engineering Intern
Jun 2019 – Aug 2019 | San Francisco, NJ
- Worked on the Genomic Algorithms team expanding ethnicity matching algorithm implementation to support more ethnic groups, and built internal tools.
- Updated and improved ethnicity algorithm's usage of task queues, batch sizing, AWS **EC2** instance types, and caches.
- Created a tool to efficiently recompute ethnicity results for 15 million existing customers to provide the latest most accurate results.
- Built tool's front-end using **Vue.js,** back-end with **Python, Sanic,** and used tools like **Docker, Redis**, **Terraform,** and AWS **Fargate, Lambda.**

TECHNO-COMP INC | Software Development Intern
Jun 2017 – Aug 2017 | Franklin, NJ
- Built internal management tools for Verizon Wireless to help lower AWS costs with a team of consultants.
- Designed and constructed a dashboard from the ground up to help management monitor AWS usage.
- Built the front-end of the dashboard with **Angular.js,** and used **Java** for the back-end to process data from Verizon's AWS CloudWatch page, AWS Billing page, and **Jenkins** pipeline.

PROJECTS

STARCRAFT II MACHINE LEARNING BOT
Built at PennApps XVII
- Implemented reinforcement learning techniques in **Python** using the **PySC2** framework to develop a self-learning bot for Starcraft II.
- Capable of different strategies and can beat in-game "Very Easy" and "Easy" AI opponents 100% of the time.

SWOLTRITION
Built at PennApps XV
- Developed an **Alexa** skill using **Python** allowing users to retrieve nutritional information for a food, and track macro-nutrient intake.
- Connects to the USDA public database on food in order to receive official nutritional information for all foods on file.

STUDENTCONNECTOR
Built Summer 2018
- Built a social network with **MongoDB, Express, React,** and **Node.js.**
- Protected routes with JWT, and used **Redux** for app state management.