

# Kuber Sethi

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## Education

### Rutgers University

New Brunswick, NJ

BACHELOR'S DEGREE IN COMPUTER SCIENCE

Class of January 2021

- Relevant Coursework: Data Structures & Algorithms, Design & Analysis of Algorithms, Intro to AI (Graduate Course), Distributed Systems, Systems Programming, Internet Technology, Principles of Programming Languages, Data Science

## Experience

### Forward

San Francisco

SOFTWARE ENGINEER - PLATFORM

March 2021 - July 2022

- Worked on the Platform team building tools to optimize healthcare delivery, and improved back-end APIs to increase efficiency and reliability.
- Improved patient visit quality and offsite labor utilization rate by rebuilding and automating how medical scribes are assigned visits.
- Reduced likelihood of critical system outages by converting a vital endpoint along with its callers to use pagination.
- Redesigning a system letting blocked medical staff hand-off clinical work to properly licensed and available medical staff.

SOFTWARE ENGINEER - GROWTH

- Worked on the Growth team launching experiments to improve key metrics, built marketing tools, and improved the Forward website.
- Designed and built a URL-based discount system enabling marketers to share custom promotional links to advertisers.
- Redesigning the website entry flow quiz to calculate user health scores and dynamically market off of them, boosting lead generation by 16%.
- Improved organic conversion rate by helping rebuild Forward website to be server side rendered.
- Worked with technologies like **Go, Typescript, React, GraphQL, MySQL**, and **AWS ECS, RDS, SQS, CloudFormation, CloudWatch**.

### Amazon Web Services

Seattle, WA (Remote)

SOFTWARE DEVELOPMENT ENGINEER INTERN

June 2020 - September 2020

- Worked on the AWS RDS on VMware Hybrid Cloud team adding support for sending database events to customers.
- Made use of multi-threading and async processing to build a performant back-end library that is called from across the team's codebase.
- Worked with technologies like **Java, Coral** (Amazon RPC framework), and **AWS CloudWatch**.

### Ancestry

San Francisco, CA

SOFTWARE ENGINEERING INTERN

June 2019 - August 2019

- Worked on the Genomic Algorithms team expanding the ethnicity matching algorithm's implementation and tooling.
- Created a tool to efficiently recompute ethnicity results for up to 15 million 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

Franklin, NJ

SOFTWARE DEVELOPMENT INTERN

June 2017 - Aug 2017

- Worked with a team of consultants to design and construct a dashboard for Verizon to help management monitor AWS usage.
- Built front-end with **Angular.js**, and used **Java** for the back-end to process data from Verizon's AWS **CloudWatch** page.

## Projects

### Starcraft II Machine Learning Bot

PENNAPPS XVII HACKATHON

- Implemented reinforcement learning techniques in **Python** using DeepMind's 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

PENNAPPS XV HACKATHON

- Developed an **Alexa** skill using **Python** allowing users to retrieve nutritional information for a food, and track macronutrient intake.
- Connects to the USDA FoodData API to receive nutritional information for all foods and ingredients.

## Skills

**Languages** Go, Python, TypeScript, Java, C, C++, HTML/CSS

**Tools / Technologies** Git, Docker, AWS, gRPC, MySQL, MongoDB, Flask, NumPy, Node.js, React, Redux, Kafka, Redis, RabbitMQ, Celery