

SINDHU RANGA

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EDUCATION

University of Virginia/McIntire School of Commerce, Charlottesville, VA

August 2017 – May 2021

Double Major: Bachelor's in Computer Science and Commerce (Concentration: Finance)

CS GPA: 3.93 GPA: 3.571

EXPERIENCE

Software Development Engineer, Amazon Web Services, Supply Chain Topology

August 2021 – Present

- Building internal tool to manage AWS's server supply chain using AWS tools, including Lambda, DynamoDB, & CloudWatch
- Owner of a simulation product that supply chain planners use to understand how changes to configurations affects rack demand fulfillment, helping to prevent ICEs in AWS's core services, like EC2
- Redesigned and rebuilt the dataflow of the simulation system, preventing timeouts, which caused ~40% of failures in the system, and making onboarding new capabilities to the system much easier
- Automated code deployment process: automated pipeline, added alarms to monitor latency and error metrics and automated rollback and ticketing on errors
- Designed and implemented a feature end to end to maintain as source of truth and vend configuration data to consumers
- Mentor to interns and new hires on the team and drive best practices on the team by writing documentation

Software Engineering Intern, Microsoft, MyAnalytics/Workplace Intelligence

May 2020 – July 2020

- Developed "Emails that need your attention" Insight existing in Outlook product in backend to expose data to more products
- Wrote backend algorithm to identify important emails using email and people importance models; feature set up to relay new training data to models for improvement
- Learned how to write code at scale; wrote a functional API for Microsoft customer facing products; will be available for Weekly Briefing, Dashboard, Teams, etc. products to utilize, therefore increasing customer exposure & increasing training data

Software Engineering Intern, Capital One, Card and Small Business Tech

June 2019 – August 2019

- Developed internal tool to automatically onboard collection data for Card Rewards Department's existing platform
- Reduced 20 hrs of work/week to ~1 hr/week; made non-technical friendly and more dynamic for further development
- Refactored existing code to store and call data from database to enable changes without re-deployment or developer's assistance, reducing time to market

PROJECTS

MusiQueue, React and Node.js Scalable App

May 2020 – December 2021

- A live updating queue app for groups of people listening to music utilizing Spotify and SoundCloud music libraries/APIs
- Prototyped app design using React FLUX framework

SafeWalk, App Developer/Designer

June 2018 – August 2018

- App for student use at UVA; matches students walking at night with others to prevent muggings and sexual assault
- Began as hackathon idea, completed implementation as part of the UVA Health System Development team
- Gained experience marketing, designing, implementing, and testing an app

COMMUNITY INVOLVEMENT

HooHacks, UVA-based Hackathon – Co-President

October 2018 – May 2021

- UVA student-run hackathon planning club; in-charge of overall run of hackathon and related events, management of the team
- Founder of [Ideathon](#), entrepreneurship event & pitch competition

SKILL

Technical Skills

Certifications: Certified Secure Software Engineer (CSSE)

Languages: C#, ASP.NET, Java, JavaScript, JSON, CSS, HTML, SQL, jQuery, Ajax, C++, Python, BASIC, C, TypeScript

Applications/API: React, Mongo DB, Express, Django, Heroku, Travis, Node.js, MySQL, Google Maps, React, AWS Services (Lambda, ECS, Cloud Formation, Batch, Step Functions, DynamoDB, S3), Angular, Kubernetes, Pipelines

Business Skills

Analysis Skills: Valuation Skills, Monte-Carlo Analysis, Multiple Regression, Explanatory Time Series Models, Conjoint Analysis, Model Analysis, Contingency Analysis

People Skills: Team Management, Agile Approach, Designing apps for common user, Event Planning Skills