

Akshay Akula

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EDUCATION & SKILLS

Virginia Tech - Blacksburg, VA

May 2022

Bachelor of Science, Computer Science

Leadership: Founder/President Blockchain Club, Director Finance Club, and Entrepreneurship Club

Awards: 2nd MLH Health Hacks, 1st VT Kickstarts Pitch Comp, and 1st Grant Thornton Case Comp

Technical: JavaScript, C, Python, Java, Node, Express, React, Angular, Solidity, AWS, SQL/NoSQL, Git

EXPERIENCE

Software Engineer / Full-Stack, Blazesell

Summer 2021

- Developed a full-stack, serverless selling platform—blazesell.com
- **Tech Stack:** JavaScript, React, Node, Express, Firebase Cloud Functions, Firestore/NoSQL

Front-End

- Built a PWA with a 96% Google Lighthouse Performance Score (1.1s First and Largest Paint)
- Optimized SEO to 100% Google Lighthouse SEO Score
- Published an article on the process of adding web meta data for contentful links

Back-End

- Developed pure serverless self-scaling architecture with minimum cost and storage usage
- Secured user access and data with OAuth 2 and Firebase user management
- Integrated Slackbot auto messaging for error management and support tickets

Software Engineer / Cyber Security, Blackhorse Solutions

Summer 2020

- **Tech Stack:** TypeScript, Angular, Node, Express, PrimeNG, Kali Linux
- Built an offensive network scanning web tool—used by 50+ engineers on the offensive security team
- Designed a back-end to automate multiple offensive scans in parallel—saves engineers an hour per penetration test

Software Engineer, Riskinsights.ai

Aug-Dec 2021

- **Tech Stack:** Python, JavaScript, React, Node, AWS Comprehend, DynamoDB, AWS S3, AWS EC2
- Improved the accuracy of sentiment analysis model by 30%+ by creating a pipeline for human review
- Model will be used to improve workplace safety for riskinsights.ai's clients
- Published a report on *Risk Prediction Sentiment Analysis* under Prof. Edward Fox's supervision
- Project success led to Virginia Tech receiving a donation from riskinsights.ai

Data Analyst, Upper Quadrant

Summer 2018

- Wrote Microsoft SQL Server queries and managed client dashboards for 50+ local clients
- Pitched a sales strategy to boost local client's event sales based on data insights

PROJECTS

Regen - 2nd MLH Health Hacks at VCU

Oct 2021

A mobile app for doctors to send post-care instructions to patients in a unique link via Twillio SMS

Tech Stack: React Native, Python, JavaScript, Node, Twillio, npm sentiment, ngrok

EnunciateIO (enunciateio.com) - Virginia Tech Hackathon

March 2019

An interactive web novel with NLP to teach kids to read aloud

Tech Stack: Javascript, JQuery, Azure NLP