

Akshay Akula

Full Stack Web Dev · Serverless Computing · Applied Machine Learning

571-386-9946 | akshayakula@vt.edu | akshayakula.medium.com | akshayakula.com

Education

B.S. Computer Science – Virginia Tech

August 2018 – December 2021

- Relevant Coursework: Cloud Development (**RxJS**) · Machine Learning · Computer Organization (**x86/MIPS**)
- Activities: Secretary of Finance Club · Treasurer of Society of Indian Americans · Entrepreneurship Club
- Awards: VT Kickstarts 2018 · Grant Thornton Innovation Challenge

Experience

Cyber Security Intern – Black Horse Solutions

Summer 2020

- Developed a **Node/Express** backend that executes successive network scans such as Nmap, dirb, nictio, DirBuster, Unicornscan, etc. to locate network vulnerabilities
- Designed an **Angular** front end with Prime-Ng based UI for easy access to backend Kali Linux server
- Implemented **MongoDB** database that stores scan outputs allows pen testers to cross reference old scan for the first time

Data Analytics Intern – Upper Quadrant Inc.

Summer 2019

- Solved supply chain database issues using **SQL** for Potomac River Running and On Running shoes
- Proposed using race tags as coupons to client sales team from data foresights on customer patterns

Founder – Univprints

2020-2021

- Founded a business to supply custom clothing beating custom ink prices by over 20% on every sale
- Ensured a customer NPS score of a 100 on all clients and order sizes

Projects

Applied Machine Learning – Sentiment Analysis

2020

- Implemented a **PyTorch** RNN using sample data from Kaggle for Twitter sentiment analysis
- Developed directly into **AWS Sagemaker** for automatic hyper parameter tuning
- Deployed trained model onto **AWS Lambda** to use with testing front end

Web Automation and Serverless Computing – Blazesell.com (2021)

2021

- Designed a **React/Redux** front end with Google Material UI template for consolidated online selling
- Created Google **Puppeteer** scripts for auto filling on Craigslist, Mercari, eBay, fb marketplace.
- Wrote Firebase **Cloud Functions** with Node and Express removed need for server load balancing

Web Development

2018 - 2021

- Designed **Gatsby.js** static site with 99inbound form email integrations (novascanners.com)
- Deployed Microsoft Azure speech recognition for student reading tool (enunciateio.com)
- Designed **Anime.js** powered web animations on personal portfolio site (akshayakula.com)

Skills

Coding: C · Java · Python · JavaScript · HTML/CSS · Swift · Kali Linux · SQL

Business: Sketch · Supply chain management · Social media marketing · Public Speaking