

ANISH KOTTU

+1 (919) 757-4730 • anish.kottu@duke.edu • <https://akottu.github.io/>

EDUCATION

DUKE UNIVERSITY

B.S. Computer Science • B.S. Statistics

Durham, NC

August 2017 – May 2022

- Design and Analysis of Algorithms • Software Design and Implementation (Design Patterns) • Computer Architecture (MIPS, C) • Database Systems (SQL) • Discrete Math for Computer Science • Data Structures and Algorithms (Java) • Introduction to Programming (Python)
- Regression Analysis (Multiple Regression Modeling) • Statistics (Theoretical and Bayesian Statistics) • Data Science and Statistical Thinking (R) • Probability (Combinatorics, Distributions)

UNC CODING BOOT CAMP

Web Development Student

Raleigh, NC

January – July 2019

- Trained in an intensive, six-month full-stack web development program, using frontend technologies such as jQuery and Bootstrap, supported by backend technologies like SQL, Node, and MongoDB, using Git as an SCM tool
- Created numerous apps, one of which was an app called Autochef that helped users find recipes based on food items in their pantries, using a Bootstrap frontend and Ajax backend backed by the Edamam API and a Firebase database

EXPERIENCE

LIBERTY MUTUAL

Software Development Intern

Remote

May 2020 – August 2020

- Worked on the cloud-driven data stream to the Genius Integration System (GIS), the support application for the Tier I GENIUS database
- Created application to display publisher transaction information and summary statistics to publishers
- Worked on Apigee API Gateways to establish multiple OAuth implementations in data stream to GIS
- Finished MVP for the creation of a new architectural design for data flow of API requests regarding actuarial reporting to a data lake via a DynamoDB database
- Worked on AWS Lambda function to update NodeJS version in order to establish updated compatibility with related functions
- Recreated recommendations feature on Risk Engineer Workbench (REWB) to be more intuitive and functional for Risk Engineers
- Created MERN stack application for hackathon to improve insurance literacy for K-12 students and new recruits of Liberty Mutual (placed 2nd)

THE CODING SCHOOL

Instructor • Curriculum Developer

Remote

May 2020 – present

- Taught students Python and web development curriculums in one-on-one sessions, from basic conditionals and logic to algorithms and object-oriented development
- Developed comprehensive web development curriculum for the codeConnects program involving backend and frontend technologies, designed to teach students from 13 to 21 years old how to code from basic skills in HTML, CSS, and JavaScript to full-fledged design and development involving Flask and Node.

CS SIDEKICKS

Sidekick (Instructor)

Durham, NC

January 2021 – present

- Introduced Durham middle school students to computer science fundamentals through weekly small group meetings
- Led twenty sessions with a small group of three students to personalized instruction and foster interest in the field

THE BREAK PODCAST

Founder • Co-Host • Marketer

Durham, NC

January 2020 – present

- Founder and co-host of The Break, a podcast exploring what a passion is and what it takes to pursue one
- Built a brand on campus via college newspaper articles and social media (@thebreakpod) with 2000 followers on Instagram
- Joined Thesis Podcast Network as of October 2020 as a founding member

PROJECTS

- **Doug's Large Assortment of Mini-Games** is a MERN stack web application that introduces K-12 students and Liberty Mutual recruits to the fundamentals of the insurance industry
- **Monopoly** is a JavaFX application supporting up to 8 players with three variants, supported by data files which drive the Model-View-Controller design of the application
- **Grid Simulations** models variants of the Game of Life, including Percolation and WaTor, in a data-driven manner, using a CSV reader to parse data files and display them to the user, who can customize starting grid patterns; uses a Model-View-Controller approach to building the application
- **Hooper** is a Flask-driven website supported by PostgreSQL to display and manipulate a database of real NBA players, teams, and games, with the option to add custom entries (players, teams, games)

SKILLS

BACKEND

Java • Python • R • C • SQL • MIPS • Flask • SQLAlchemy • Jinja2 • NodeJS • MongoDB • Express • Angular

FRONTEND

HTML • CSS • JavaScript • Bootstrap • jQuery • ReactJS

TOOLS

GitHub (SCM) • Terminal • WebStorm • IntelliJ • PyCharm • Visual Studio Code • Eclipse • Firebase • PostgreSQL

CERTIFICATIONS

Oracle Java SE Associate