

## Professional Profile:

Graduate, with a **Bachelor of Science degree in Computer Science**, complemented by minors in **Mathematics** and **Cybersecurity**. Possessing advanced proficiency in programming languages such as **JavaScript**, **Python**, and **C++**, demonstrated through the successful completion of diverse and impactful software development projects. Cultivated strong **collaboration** and **communication** skills to ensure effective team interactions and consistently deliver high-quality outcomes. Currently seeking a full-time **Software Engineer** OR **Full Stack Web Developer** OR **Data Science** related opportunity, to contribute my knowledge and skills to a team, foster continuous learning and personal growth.

## Education and Certifications:

### Texas A&M University – College Station

August 2018 – December 2022

- **Major:** Computer Science, **Minor:** Cybersecurity | Mathematics

### OpenEDG Python Institute:

April 2023

- **PCEP** – Certified Entry-Level Python Programmer

### OpenEDG Python Institute:

August 2023

- **PCAP** – Certified Associate Python Programmer

## Employment:

### Urban Resilience.AI Lab – College Station

August 2022 – December 2022

- **Data Science Researcher:** Analyzed human activity data, investigating unique recovery patterns at a user-level. Used fine spatial granularity to capture differential recovery experiences. Determined homogeneity and heterogeneity of datasets to understand equitable recovery practices. Journal paper:

*N. Coleman, T. Kakad, C. Liu, A. Mostafavi, "Homogeneity and Entropy Analysis of Use-Level Recovery to Lifestyles,"*

### Blackstone Technologies LLC – Remote

February 2023 – August 2023

- **Python Developer:** Coordinate with teams to gather app requirements, write scalable Python code, debug applications, and integrate user-facing elements using server-side logic. Prioritize client requests, integrate data storage solutions, collaborate with front-end developers, and develop tools for monitoring online traffic.

## Programming Languages:

- |                    |           |                     |
|--------------------|-----------|---------------------|
| • C/C++            | • CSS     | • Pandas            |
| • Python           | • Java    | • Git/GitHub        |
| • React.JS         | • CI/CD   | • Unix/Linux        |
| • JavaScript       | • HTML    | • TensorFlow        |
| • Ruby on Rails    | • Django  | • React Native      |
| • Machine Learning | • Node.JS | • Kubernetes/Docker |

## Major Projects:

- **EzFind (tourist guide web application):** Developed a website for holiday destination search. Utilized React for frontend and JavaScript, Node.JS, and Express.JS for backend. Provided information on tourist attractions, nearby restaurants, weather report, and NEWS for entered destination.
- **Personal portfolio website** (HTML, CSS, JavaScript, jQuery): A completely functional portfolio website developed on TAMU server, with different tabs navigating to Home page, About Me page, Services page, and Portfolio.
- **Bayesian Personalized Ranking model:** Designed a program on python jupyter notebook using the NumPy and Pandas library to get a personalized ranking of movies by learning the recall and precision values for the implicit feedbacks (for about 20 *epochs*) and then finding the *average AUC* for the entire model.
- **Ruby on Rails application:** A web application built on Ruby on rails platform for a library, which included a sign in page for employees and customers, events page, service logger page for employees to register their work hours and a page for customers to keep track of the books they borrowed, read and ones that are to be returned to the library.
- **Speed limit sign detector:** Built software for autonomous driving vehicles. Captured speed limit sign board images using camera. Processed images with machine learning model using SVM, CNN, and KNN. Created test dataset with internet-collected speed limit sign board images. Implemented model with ROS2 Foxy Fitzroy on car's computer.