Tejas Sanjay Kakad

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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**: *Bachelor of Science, Computer Science* | **Minor**: *Cybersecurity, Mathematics*

Texas A&M University – College Station   *January 2024 – Present*
- **Major**: *Master of Science, Computer Science*

OpenEDG Python Institute: *April 2023 – July 2023*
- **PCEP** – *Certified Entry-Level Python Programmer* | **PCAP** – *Certified Associate Python Programmer*

Employment:

Urban Resilience.AI Lab – College Station   *August 2022 – December 2022 | January 2024 - Present*
- **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:

Ruby	CSS	Pandas
C/C++	Java	MongoDB
Python/R	CI/CD	Git/GitHub
React.JS	HTML	Unix/Linux
JavaScript	Django	TensorFlow
Ruby on Rails	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 feedback (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.