Pragyan Das

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EDUCATION

- **University of Wisconsin-Madison** — Madison, WI
  Bachelor of Science – Computer Science; GPA: 3.75 — *Aug 2019 - Dec 2022*

EXPERIENCE

- **Synkriom** — Piscataway, NJ (Remote)
  Software Engineer — *Apr 2023 - Present*
  - **Overview**: Building an innovative ChatGPT-based extension for recruiting software, streamlining the hiring process by automating resume summarization, analyzing interview footage for candidate assessment, and generating targeted technical interview questions to enhance the overall efficiency and effectiveness of talent acquisition using **Flask** and **LangChain**.

- **Bitnine Global Inc.** — San Francisco, CA (Remote)
  Software Engineering Intern — *Sep 2022 - Dec 2022*
  - **Overview**: Developed the backend for **Apache AGE**, an open-source PostgreSQL extension that provides graph database functionality with C.
  - **Cybersecurity**: Patched major SQLi and Cypher injection vulnerabilities in the Go and Python drivers for the software
  - **Contributions**: Added **regression tests** for testing node creation, deletion, and edge preservation.

- **UW-Madison Information School** — Madison, WI
  Student Programmer — *Oct 2021 - Sep 2022*
  - **Overview**: Modelled the effectiveness of vaccination encouragement strategies in Wisconsin and visualized them in the form of an RShiny application.
  - **Statistical Modelling**: Processed thousands of vaccination records and modelled the effectiveness of vaccination encouragement strategies through an interrupted time series analysis.
  - **RShiny**: Utilized R to compute the relevant metrics and visualize the findings in the form of an RShiny application.

- **Xoriant** — Pune, India
  Full-Stack Software Engineering Intern — *May 2021 - Jul 2021*
  - **Overview**: Developed a portfolio optimization software for low, high, and medium risk investors for the Indian stock market with the assistance of two mentors in a Scrum environment. Our medium-risk model beat the market by 5% over six months.
  - **React.js**: Developed the front-end of the application with React.js with a real-time moving stock ticker and visualizations for the portfolio details.
  - **DeepDow**: Created an LSTM network using DeepDow to generate recommendations for the three types of investors based on historical stock market data and information calculated by pyportfolioopt.

PROJECTS

- **Proton - Discord Bot (Node.js, FFmpeg, Discord.js, Multimedia Processing)**: Developed a do-it-all JavaScript bot for the messaging app Discord that performs tasks ranging from server administration to playing music. Used YTDL to retrieve the music video which is reduced to its audio component using FFmpeg. Currently working on a feature to show a location's weather using the OpenWeatherMap API.

- **Scene Recognition AI (Reinforcement Learning, Computer Vision, PyTorch)**: Developed an application that can recognize items in a given image through an AI model trained on the MiniPlaces dataset. Achieved 93% accuracy on the validation set.

- **COVID-19 Reservations App (C++, CLI Application)**: Menu-based application developed on C++ that allows Madison residents to find and reserve COVID-19 testing appointments. Added a symptom checklist to notify users if they should get tested.

SKILLS

- **Languages**: Python, C/C++, JavaScript, Java, HTML/CSS, R, PostgreSQL LaTeX
- **Software**: AWS(**Certified Cloud Practitioner**) Linux, Tableau, Maple, MATLAB, MySQL, Unity, Blender
- **Frameworks/Packages**: Node.js, React.js, Vue.js, OpenCV, scikit-learn, NumPy, TensorFlow, PyTorch