Amitej Bhongiri

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EDUCATION

University of California, Davis   **Davis, CA**
Bachelor of Science, Computer Science   *September 2021 - June 2025*
Minor in Technology Management
- Relevant Coursework: Discrete Math, Object Oriented Programming, Software/Back End Development, Programming and Problem Solving, Computer Organization, and Data Structures

Programming Languages: Knowledgeable in C, C++, Java, Python, HTML

WORK EXPERIENCE

Mapsi Photonics   **Barcelona, Spain**
Software Developer Intern   *June 2023 - August 2023*
- Applied advanced image processing techniques using TensorFlow and OpenCV to enhance computer vision. This involved teaching computers to interpret and make sense of visual data more effectively.
- Engaged in the mechanical design of electrochemical devices, specifically optical filters for infrared detection. Additionally, optimized a region-based convolutional neural network (CNN) to improve the system's ability to identify areas of significance within images, such as identifying objects.
- Optimized a region based convolutional neural network to identify regions of interest

Softpath Systems   **Marietta, GA**
Software Developer Intern   *June 2021-August 2021*
- Pre-processed multiple resume data sets to ensure consistency and quality for model training
- Explored machine learning algorithms and methodologies with TensorFlow, model training, and Scikit-Learn to create predictive models for ranking resumes according to job relevance
- Trained and fine-tuned machine learning models, achieving 45% accuracy in resume ranking.

Marietta Medical Clinic   **Marietta, GA**
IT and Billing Assistant   *January 2020 - present*
- Coordinate data collection of patient demographics, ensuring accuracy and compliance with medical records. Faced challenges of maintaining confidentiality while managing patient data effectively
- Utilize Electronic Health Record Systems: Kareo, EClinicalWorks, Athena, Tebra to streamline billing process and speed contributing to patient satisfaction
- Successfully manage IT services, routine maintenance of technology to decrease downtime by 60% ensuring clinic operations running smoothly

PROJECT EXPERIENCE

Facial Recognition Project
- Developed a robust facial recognition system from the ground up, leveraging Python, computer vision libraries such as OpenCV, and deep learning with TensorFlow.
- Designed and implemented a convolutional neural network (CNN) model to accurately detect and locate human faces within images, demonstrating a deep understanding of neural network architecture and computer vision techniques.

LEADERSHIP EXPERIENCE

Society of Manufacturing Engineers   **Davis, CA**
Secretary   *August 2022 - present*
- Organized a club consisting of 20+ students that share an interest in engineering to make engineering and manufacturing more accessible to a wider audience
- Communicated with both faculty and students in order to facilitate interaction with technology
- Hosted multiple workshops that facilitated interaction between students and technology such as semiconductor fabrication and laser cutting

Google Developer Student Club   **Davis, CA**
Executive Tech Lead   *August 2022 - present*
- Led a dynamic team of five dedicated students to design and implement a cutting-edge AI chatbot project, which responded to the user's queries based on information in a dataset and replied with 72% accuracy. The goal was to demonstrate cutting edge technology in a real world scenario
- Demonstrated expertise in project management, agile methodologies, and version control systems (e.g., Git) to maintain an efficient and well-documented development process. Spearheaded project planning, delegated tasks, and ensured efficient communication by allocating responsibilities within the team.