DAHLIA RANE PATRICK

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EDUCATION

University of Massachusetts Lowell, Lowell, MA	CGPA:3.8/4
Master of Science, Computer Science	Expected May 2024
Anna University, Chennai, India	CGPA:3.6/4
Bachelor of Engineering, Computer Science and Engineering	2022

TECHNICAL SKILLS

Languages: C, C++, Python **Databases:** SQL **Frameworks:** Bootstrap, Angular, Flask, NodeJs, React, TensorFlow, PyTorch **Libraries:** OpenCV, Scikit-learn, Pandas, NumPy, Matplotlib **Cloud:** Azure **Tools:** Git ,SVN **OS:** MacOS, Linux, Windows.

Coursework: Computer and Network Forensics, Data Communications, Design of Program Languages, Algorithms, Malware Analysis, IoT Security and Privacy, Internet And Web Systems, Data Mining, Data Science.

PROJECTS

Forensic Dental X-Ray Enhancement to Determine Age and Gender | *AI*   January 2021 – May 2022
- Implemented **CLAHE** and **FAG** algorithms using **Python** for age and gender prediction, resulting in improved accuracy and performance.
- Developed front-end using **HTML**, **CSS**, and **Flask** to take dental x-ray images to use the enhanced Algorithm.

Face Recognized Based ATM Authentication | *AI*   March 2021 – May 2021
- Captured data images using **Python** for potential face detection including seasonality acquisition, normalization and recognition.
- Face detection using features to provide high level security through face recognition for ATMs.
- Accomplished by utilizing **computer vision** and **Active Appearance Models** for Feature extraction.

Student Marks Calculator Application | *Android Application*   March 2021 – May 2021
- Developed a user-friendly mobile application for accessing student marks and analysis using **Android Studio**.
- Implemented features for presenting the average marks for every subject, improving the overall user experience.

EXPERIENCE

Graduate Assistant Recruitment Coordinator | *UMass Lowell, Lowell, MA*   January 2023–Present
- Successfully **recruited** a diverse pool of qualified graduate students to various academic programs and cultivated **data analysis** using **Python** to optimize recruitment strategies.
- Utilized **machine learning algorithms** to troubleshoot issues and found creative solutions for recruitment.
- Leveraged **Salesforce** to manage and track recruitment efforts, facilitating successful recruitment events and marketing campaigns, resulting in **30%** increase in applications.

Front-End Web Developer Intern | *Kaashiv InfoTech, Chennai, India*   May 2022–July 2022
- Developed and maintained responsive user interfaces using **React.js** and **JavaScript** for optimal user experience on multiple platforms.
- Implemented new features and improved overall user experience and performance.
- Collaborated with developers to integrate API services, ensuring seamless user interactions and data flow.

Software Engineer Intern | *Suven Consultants and Technology Pvt.Ltd, Chennai, India*   May 2021 – July 2021
- Designed and developed **RESTful APIs** using **Node.js** and **Express**, which allowed the web application to communicate with the database and sources.
- Worked with **JSON Web Tokens (JWTs)** to secure the APIs.
- Wrote unit test cases using frameworks such as **Mocha** and **Jest**, which allowed automated testing of individual components of the application.
- Integrated **SonarQube** into the development workflow to analyze code quality and detect bugs, vulnerabilities, and code smells.
- Used **Postman** to test the **APIs** and ensure their correct functionality.

PUBLICATIONS

2021 Dahlia Rane P, Gnanadeepam B. **'Face Recognized Based ATM Authentication Using Artificial Intelligence'**. International Journal of Advancement in Engineering and Management(IJAEM) ISSN: 2395-5252 Volume no:03 Issue No:10 Journal link