PRATHAMESH AKOLE

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EDUCATION

Masters of Science in Computer Science, Northeastern University, Boston   **Expected May 2025**
Khoury College of Computer Sciences   **GPA 3.83/4**
Coursework: Programming Design Paradigm, Algorithms,DBMS, Web Development

Bachelor of Technology, Vishwakarma Institute of Information Technology   **May 2023**
Major: Information Technology *Relevant courses: DSA, DAA, DBMS, OS, ML*   **GPA 3.84/4**

SKILLS

- **Languages:** Java,C, C++, Python, HTML, CSS, JavaScript, Bootstrap, Spring Boot
- **Databases**: SQL, MySQL, MongoDB, Postgres
- **Skills :** Critical Thinking, Creativity, Problem Solving, Agile Methodology, REST APIs, JSON

PROFESSIONAL EXPERIENCE

IDeaS Revenue Solutions   **Jan 2023- June 2023**
Associate Software Developer - Intern   **Pune, India**
- Collaborated with the Analytics Team on G2 RMS product to implement new features, APIs as per project requirements following **Test Driven Development (TDD) method and Agile principles**.
- Achieved consistent adherence to **sprint** deadlines, ensuring timely completion of tickets within 2-week sprints. Attended daily **scrums** and actively participated in them to provide valuable insights.
- Took a leading role in **resolving bugs**, thereby enhancing product reliability through successful bug fixes.
- Collaborated closely with senior developers, making significant contributions to the development of the G2 RMS product used by over 10,000 hotels globally.
- Engaged actively in **unit testing**, delivering code with over 80% test coverage within specified time.

PROJECTS

Image Processing Software   **Aug 2023- Dec 2023**
- Developed a Java-based Image Processing Application with a Java-based Swing UI**,** strictly adhering to programming standards.
- Implemented various filters such as blur, sharpen,sepia, flip(horizontal,vertical) and grayscale with a preview option. Also implemented image compression achieving up to 60% reduction in size from scratch.
- Optimized code efficiency and resource utilization to ensure seamless functionality and responsiveness, reducing processing time by 30% for images over 5MB.
- Conducted rigorous testing and integrated documentation for a polished and reliable user experience.

AI-Enabled Web Platform   **Aug 2022 - Dec 2022**
- Utilized **ReactJs** for front-end development and **Java** for back-end implementation, while leveraging **MongoDB** as the primary database to ensure seamless data management.
- Spearheaded a team of 5 in the creation of an industry-sponsored online rental web portal, focusing on integrating advanced machine learning features to enrich user interaction.
- Engineered a comprehensive admin panel with sophisticated management tools, empowering administrators to efficiently oversee operations and optimize user experience across the platform.
- Designed and implemented a price prediction system for rental machines using enhanced ML models to train self-created database.

Curfew E-Pass Online Portal   **Jan 2022 - May 2022**
- Designed and built the "Curfew E-Pass Online Portal" using **HTML/CSS, PHP, and MySQL**, aiming to simplify the application process for curfew travel passes.
- Implemented UI to facilitate an easyap plication process for users, enhancing their experience.
- Developed efficient backend functionalities to streamline the scrutiny process for administrators, improving overall workflow efficiency and reducing processing times for pass applications.
- Prioritized data security by incorporating secure data handling mechanisms to protect user information, ensuring compliance with data privacy regulations, and safeguarding sensitive personal data.

ACADEMIC PUBLICATIONS

- Real-Time CCTV Violence Detection System Using Deep Learning, April 2023, ISBN: 978-1-6654-7524-2.
- Real-Time CNN-Based Face Mask Detection System, December 2022, ISBN: 9781032374598.