Philadelphia, USA
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Vineeth Bandi

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Motivated computer science graduate passionate about Artificial Intelligence, with a solid background in frontend and backend development. Eager to apply internship experience in building applications and websites to contribute effectively to a challenging Software Engineer role in a tech environment. Thrives in collaborative settings, with a strong dedication to continuous learning and applying academic knowledge to real-world software projects. Demonstrates comprehensive understanding of the software development life cycle and possesses strong problem-solving abilities.

Work Experience

Software Engineer Intern   **NexaGrid Technologies**   **Feb 2024–Sep 2024**
Hyderabad, India

- **Engineered and deployed a new feature using React.js and Node.js** for the company's primary product, demonstrating expertise in **Design**, **Technology**, and **Product** development, resulting in a **15% increase in user engagement** through enhanced front-end interactivity and back-end efficiency.
- **Optimized the main web application** by refactoring code in JavaScript and implementing asynchronous processing,showcasing skills in **Optimization** and **Programming,** leading to a **30% reduction in loading time**.
- **Automated the testing pipeline** by creating and integrating a suite of **100+ unit and integration tests** using Jest and Mocha, demonstrating proficiency in **automated testing and functional programming principles**, increasing test coverage from **70% to 95%**.
- **Developed and maintained back-end services in Java** for a new user authentication system, leveraging **Relational Databases** and ensuring **Scale** and **Security**, reducing login-related issues by **20%**.

Full Stack Developer Intern   **Fidel Software Solutions**   **June 2023–Oct 2023**
Hyderabad, India

- **Built a dynamic dashboard application** using Angular and Spring Boot, providing real-time analytics and insights, which led to a **20% improvement in decision-making efficiency** for management.
- **Migrated legacy codebase to a modern stack** (React.js, Node.js, and MongoDB), reducing maintenance costs by **40%** and improving overall system performance.
- **Collaborated with UX/UI designers** to implement a mobile-responsive interface using Bootstrap, demonstrating **Design** acumen and **Collaboration**, increasing mobile traffic by **30%** and improving user satisfaction ratings by **20%**.
- **Documented code, algorithms, and processes** to facilitate knowledge sharing and maintain comprehensive project documentation, emphasizing **Articulate** communication and **Patience** in detailing technical information.

Projects

Congenital Heart Disease Diagnosis Using AI:

- **Developing an AI-based diagnostic tool for Congenital Heart Disease** using PyTorch and TensorFlow, leveraging deep learning algorithms and fuzzy logic to enhance diagnostic accuracy and assist medical professionals in early detection and treatment planning.
- **Conducted comprehensive research and model validation** to ensure the reliability and robustness of the diagnostic tool, integrating fuzzy logic to handle data, ultimately improving diagnostic precision and patient outcomes.

Application for Mahindra University:

- **Engineered a user-friendly admissions application for Mahindra University** with intuitive online forms, real-time status tracking, and secure communication features, increasing application efficiency by **40%** and enhancing user satisfaction.
- **Ensured data security and seamless integration** by implementing advanced encryption and integrating the application with existing university systems, fully complying with privacy regulations and ensuring smooth data flow.

Hospital Management System:

- Created a web application for hospital administration that **stores room databases**, allows **patients to register**, and **schedule appointments**.
- **Implemented MySQL database** to store and retrieve all data, ensuring **Relational Databases** integrity and **Optimization in data handling**, while enhancing security access by enacting a role-based login firewall.

Technologies and Languages

- Languages: Java, C++, Python, JavaScript, SQL, TypeScript, Kotlin, Dart, PHP.
- Technologies: MySQL, SpringBoot, FireBase, Git, React.js, Angular, Flutter, PyTorch, TensorFlow

Education

- **B.Tech. Computer Science and Engineering,** Mahindra University, Hyderabad.   **2020–2024**