ADITYA SAI CHINNATHAMBI NARAYANAN

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Computer Science graduate with a strong foundation in software engineering principles and practical experience in software development. Adept at problem-solving and keen on learning new technologies. Skilled in collaborating with teams and articulating technical concepts effectively.

EDUCATION

Masters in Advanced Computer Science

Newcastle University, Newcastle upon Tyne, United Kingdom   **Sept 2023 – Present**

Dissertation: To Investigate the Utility of Touch Screen for Train Traffic Management by Developing a Prototype Touch Screen Interface using React and D3.js.

Key Modules: Model Based System Engineering, Internet of Things, Object Oriented Programming, Distributed Algorithms, Machine Learning, Secure Software Development, Engineering for AI.

Bachelors in Computer Science and Engineering (Grade - First Class with Distinction)

SRM University, Chennai, India   **July 2019 – May 2023**

Dissertation: Compositional Generalisation and Effective Training Strategies for Colorectal Cancer using Transfer Learning and Python.

Key Modules: Data Structures and Algorithms, Design and Analysis of Algorithms, Computer Networks, Computer Organisation and Architecture, DBMS, Compiler Design.

WORK EXPERIENCE

Full Stack Developer Intern - India   **Dec 2021 – May 2022 (6 - months)**

- Developed and maintained web applications using MERN stack (MongoDB, Express.js, React.js, Node.js).
- Collaborated with cross-functional teams to define, design, and ship new features.
- Implemented RESTful APIs and backend services using Node.js and Express.js.
- Worked with cloud platforms such as AWS and Azure for deploying and scaling web applications.
- Utilized Docker and Kubernetes for containerization and orchestration.

Python Intern - India   **May 2021 – Nov 2021 (6 - months)**

- Developed and maintained backend applications using Python.
- Worked with frameworks such as Django and Flask to build scalable web applications.
- Optimized database performance using SQL and NoSQL databases.
- Implemented data validation and error handling to ensure robust and reliable code.

Cybersecurity Intern – India   **Jan 2022 – Feb 2022 (1 - month)**

- Analysed data through Wireshark, refining the skills in data integration and network analysis.

- Implemented Man-in-the-Middle (MITM) attack using virtual machines and virtual networks in VirtualBox, translating theoretical knowledge into practical skills.
- Identified and reported multiple bugs in a website, honing skills in bug detection.
- Used a vulnerability scanning tool to find vulnerabilities in a website.

TECHNICAL SKILLS

Programming Languages: Java, C/C++, Python
Full Stack Development: HTML, CSS, JavaScript, Node.js, Express.js, React.js
Version Control Systems: Git & GitHub
Android Development: Java, Kotlin, Flutter, Android Studio, Visual Studio Code

Operating Systems: Windows and Linux
Cybersecurity: Wireshark, Burp Suite, Nexpose, Nmap
Certifications: Full Stack Development, Kotlin Development Masterclass using Flutter, Ethical Hacking Intern

PROJECTS

- **Secure Chat App (Full Stack) -** Designed and developed using React.js, Flask and PostgreSQL. Implemented end-to-end encryption, user authentication and data validation.
- **Music Library Management System -** Using Java
- **Machine Learning based IoT data processing pipeline -** Created an IoT pipeline leveraging Docker and Python, machine learning and visualisation techniques.
- **Data Exploration and Model Selection -** Executed end-to-end machine learning pipeline, encompassing data exploration, preprocessing and model selection to identify optimal prediction.

SOFT SKILLS

- Highly organised, skilled at prioritising tasks to meet deadlines efficiently.
- Capable of drafting clear and concise reports, with strong written and verbal communication skills in English.
- Eager to learn and continuously improve, with a passion for driving innovation in all projects.

ADDITIONAL WORK EXPERIENCE

Team Member - KFC | Chennai, India   **05/2023 – 07/2023**

- Provided exceptional customer service with a focus on accuracy and timeliness, showcasing strong time management skills.
- Collaborated with team members to ensure compliance and cleanliness in a fast-paced environment.
- Developed multitasking abilities and adapted to diverse roles within the restaurant setting.