

MANI KUMAR NANCHARLA

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SUMMARY

Software Development Engineer and UX Designer with hands-on experience in PKI, database management, and data centre operations. Proficient in C, C++, and Python, with a strong foundation in data analysis and emerging technologies like Blockchain. Currently pursuing an MSc in Information Systems, with a proven track record of implementing secure solutions and enhancing operational efficiency. Seeking to leverage technical expertise role focused on data solutions and cybersecurity.

EDUCATION

MSc Information Systems

Sep 2024-Sep 2025

University Of Portsmouth, UK

Modules have included:

- **User Experience Design:** Applied HCI and ergonomics principles to evaluate user needs and create intuitive digital solutions. Conducted UX research and analysis, leveraging Figma and Draw.io to design and prototype user-centered projects.
- **Research Methods:** Explored quantitative, qualitative, and mixed research methodologies. Assessed research briefs to determine appropriate methods, gathered and analysed data, and presented findings to support MSc research.
- **Managing Information Systems:** Investigated and applied business intelligence (BI) software and project management techniques. Analysed case studies on how enterprises leverage BI capabilities, strengthening technical expertise and leadership skills in managing modern information systems.
- **Web Product Development and Management:** Explored strategies and technologies for modern web products across business, leisure, and government sectors. Gained hands-on experience in HTML, CSS, JavaScript, SQL, and ER diagrams, applying to define, design, and manage web development projects.
- **Cyber Security for Information Systems:** Developed specialized skills to protect critical business systems and improve resilience against cyber threats. Studied access control, cryptography, security breaches, legal and ethical hacking issues, and analysed the impact of cybersecurity threats on modern enterprises.
- **Data Visualization and Exploratory Analytics:** Transformed financial data into visual narratives for data-driven decision-making. obtained expertise in Tableau and other data analysis tools, designing clear dashboards and applying forecasting techniques in line with industry best practices.

B.Tech in Electronics and Communication Engineering

Jun 2018-Aug 2022

Swarna Bharathi institute of science and technology, India (CGPA-6.56/10.0)

Studied analog & digital electronics, communication systems, signal processing, and embedded systems. acquired expertise in microprocessors, VLSI design, network protocols, and microwave engineering, with hands-on experience in circuit design, modulation techniques, and microcontroller programming.

Career Experience

PKI Administrator, IDRBT

Feb 2024- Aug 2024 | India

- Resolved technical issues across different Operating systems and managed data centre operations, deepen system efficiency by 100% and reducing down time
- Monitored disk space and server performance, utilising OpenSSL to create and analyse certificates, CRLs, and OCSP responses, developed system reliability.
- Executed database backups, including LDAP and SSL, by connecting via PuTTY and WinSCP, migrated keys from PCI-based HSM to Network-based HSM, escalate system security by 100% and reducing operational costs.
- Creation of the CA Monitoring tool for Ping, Disk Space, RAM, CPU Utilization Alerts.
- Authored a paper on digital signatures, analysing documents for validation processes.

SKILLS AND CERTIFICATIONS

Programming Languages: Python, Java, SQL, HTML, CSS, Java Script, UXUI

Data Engineering Tools: Data Warehousing, Data Modelling, Data Migration, Data Administration, DBMS, Data Migration, Data Governance, Data Quality, Data Cleansing, Batch & Stream Processing.

Engineering & Lab Techniques: Data-driven product development, raw material characterization, lab-based research Data cleansing, quality control protocols, standard operating procedures.

Software Platforms: web server software (apache), Linux, Oracle, Prince2, Scrum, Server Security (Network & Hosted Firewalls, UFW), Secure Socket Shell (SSH), Keil Software, Proteus Software, Cyber Security, HSM.

Hardware Platforms: Embedded Systems, Signal Processing, Verilog and VHDL, Circuit Design, VLSI.

Cloud Platforms: AWS (IAM, EC2), Cloud Computing, Google Cloud Platform (GCP).

Certificates: Python for Data science, React JS, Machine Learning, AWS Training and Certification, Agile Methodology- Cognizant.

SKILLS & ABILITIES

- Strong understanding of laboratory safety policies, chemical hazards, and equipment maintenance for asphalt materials testing.
- Demonstrated proficiency in project management, coordinating complex projects across teams with minimal supervision.
- Adept at delivering technical presentations to internal and external stakeholders, providing clear and actionable insights.
- Familiarity with current research methods in asphalt pavement engineering, with a focus on innovative product solutions.