Sanath Kumar

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EDUCATION

Carnegie Mellon University   August 2025 – December 2026
Master of Information Systems Management   *Pittsburgh, United States*
- Business Intelligence and Data Analytics Stream, **MISM Scholar**
- Relevant Coursework: Statistics, Object Oriented Programming in Java, Data Focused Python, Databases

Monash University, Clayton   July 2019 – July 2023
Bachelor of Eng. (Honours), Software Engineering   *Melbourne, Australia*
- Engineering International Undergraduate Excellence Scholar and IBL Scholar
- Relevant Coursework: iOS Mobile App Development, Algorithms and Data Structures, Software Engineering Architecture and Design, Databases, Software Testing, Data Visualization, Software Security, Operating Systems

TECHNICAL SKILLS

Programming and Web Development: Python, Java, JavaScript, React, Swift, Typescript

Frameworks and Databases: SQL, Swift, Tableau, Power BI, Django, MongoDB, Git, NumPy, Pandas

Misc.: Microsoft Azure Artificial Intelligence(AI) Engineer Associate, Azure AI & Machine Learning, AWS

EXPERIENCE

Software Engineer   July 2024 - July 2025
IDC (International Development Company), Digital Transformation Team   *Abu Dhabi, UAE*
- Standalone application development with Cognite, including ETL and front-end using Typescript
- Technical project owner for ADNOC(Abu Dhabi National Oil Company) Digital Factory project (AI Predictive Maintenance)
- Managing infrastructure requests across ADNOC Private Cloud and Microsoft Azure
- Overseeing development of the project implementation and infrastructure of 9 vendors (Bosch, SLB, etc)
- Built multiple processes, dashboards and websites for internal use saving IDC tech members 25-35 minutes per day

Research & Development Consultant, Intern   Jan 2023 – July 2023
KPMG Australia, Accelerating Business Growth - Enterprise   *Melbourne, Australia*
- Conducted technical interviews with tech teams and stakeholders of 18 clients to understand scope of R&D performed
- Analyzed confidential R&D information from Jira, Confluence and SharePoint of clients
- Condensed technical and costing data coordinating with multiple engagement teams, consultants, and clients
- Collaborated with C-suite of companies and start-ups from various industries to discuss financial requirements and timelines

PROJECTS

Showz   Swift, LightFM, Python, FastAPI
- Developed an end-to-end iOS app that recommends TV shows using a hybrid ML model trained with LightFM (WARP loss)
- Combining collaborative filtering with IMDb-based content metadata (genres, plot keywords)
- Implemented persistent storage, notifications, cloud storage and authentication using Firebase and Firestore.
- Enables tracking of favourite TV shows, notifications for new episodes and complete show information sourced from IMDb

Researchify   AWS, React, MongoDB, GitHub Pages
- Managed a 17-person cross-functional team to build a platform enabling researchers to publish websites without coding.
- Scoped features, organized into sprints, and aligned team leads across front-end, back-end, and DevOPS to deliver MVP and MMP
- Focused on AWS Deployment, state management and front-end templates for the overall framework

Research into Prompt Engineering and GPT-3 Applications   Python
- Co-wrote a research paper titled "GPT-3 Applications; What they are, how they are made, and what people think"
- Performed empirical study and literature review of prompt engineering, prompt types and learning styles for GPT-3 applications, created interactive taxonomy of GPT-3 application categories, dove into Latent Dirichlet Allocation and Cloze and prefix prompting