Sankar Mantripragada

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EXPERIENCE

- **Microsoft** — Hyderabad, India
  Software Engineer -2 — *Feb 2023 - Present*

- **Microsoft** — Hyderabad, India
  Software Engineer — *Jul 2020 - Feb 2023*

- **Microsoft** — Hyderabad, India
  Software Development Intern — *May 2019 - Oct 2019*

  - **Lead Developer:** Spearheaded the design and development of high-scale APIs using .NET and Azure technologies for projects like Repair and Warranty processes of Microsoft Devices and Testing Platform. Innovated service order fulfillment and warranty provisioning systems, significantly enhancing efficiency and reliability.

  - **UI Development:** Played a key role in architecting and developing user interfaces with Angular and Formly, creating configurable UIs that improve user interaction and operational productivity.

  - **Concurrency and Scalability Solutions:** Addressed concurrency challenges, implementing scalable solutions that boosted system performance for large-scale applications. Played a key role in migrating numerous workloads to Azure Kubernetes Service from scattered deployment solutions.

  - **Library Development:** Authored libraries enhancing logging with Azure Application Insights and improving resilience, ensuring robust operations during downtimes of dependent systems.

  - **Advocate for Code Quality:** Promoted clean coding practices in line with SOLID principles, guided code reviews, and mentored team members to maintain superior software quality standards.

  - **Project Leadership:** Led diverse teams of full-time employees and vendors, notably in the successful delivery of a Test Platform project. This initiative dramatically reduced testing times from weeks to days by providing cross-cutting teams with tools and frameworks that streamline testing processes and enhance software quality across the board.

  - **Innovation in Startup Ecosystems:** Contributed to the FoundersHub platform (Microsoft for Startups), leading the development of a rules engine that automates the review of startup applications, facilitating a faster and more efficient evaluation process.

  - **Cross-Team Collaboration:** Demonstrated leadership in fostering collaboration across teams, leveraging horizontal projects to promote a culture of innovation and continuous improvement.

- **Datafoundry.ai** — Chennai, India
  Research Intern — *Oct 2019 - Jun 2020*

  - Participated in a cutting-edge research predicting adverse drug reactions, under the supervision of Prof. Masilamani from IIITDM Kancheepuram.

  - Primarily utilized Convolutional Neural Networks (CNNs), implementing them through the Python Keras library to analyse and process data.

- **IIIT Hyderabad** — Hyderabad, India
  Research Intern — *Oct 2019 - Jun 2020*

  - Conducted a study on the discrete logarithm problem, improving understanding of computational number theory and cryptography.

  - Gained experience in various aspects of research methodology, honing analytical thinking and problem-solving skills.

EDUCATION

- **Work Integrated Learning Program- BITS Pilani** — Pilani, India
  Master of Technology in Cyber Security — *Jan. 2023 – Ongoing*

- **IIITDM Kancheepuram** — Chennai, India
  Bachelor of Technology (Honours); GPA: — *Jun. 2016 – May. 2020*

PUBLICATIONS

- **Prediction of Adverse Drug Reactions Using Drug Convolutional Neural Networks**:
  - Authored the research paper during the research intern at Datafoundry.ai highlighting our key findings and results.
  - The paper published in the Journal of Bioinformatics and Computational Biology in 2021. DOI: https://doi.org/10.1142/S0219720020500468.

TECHNICAL SKILLS

- **Languages**: C#, C++, Python, Javascript, SQL, Typescript

- **Technologies**: Azure, Dotnet, Angular, Artificial Intelligence

- **Others**: Object Oriented Programming, Software Design

ACHIEVEMENTS

- Secured 1st position in SSN Cup contest at SSN college, Chennai, March 2018.

- Secured 2nd position in OSPC, Onsite Programming Contest at College of Engineering, Guindy, Chennai, March 2018.

- Represented the college in ACM-ICPC regionals for 2 consecutive years.

- Secured All India 613th Rank in Gate examination in 2021.

- Technical Advisor of Foundation for Scientific Research and Technological Innovation, Hyderabad, India.