Ashish Sunny Abraham

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EDUCATION

- **University of Florida** — Gainesville, FL
  Master's in Computer Science; GPA: 3.50/4.0 — *Aug 2022 - May 2024*
  Courses: Distributed Operating Systems, Information Visualization, Machine Learning, Advanced Data Structures, Analysis of Algorithms.

- **Jawaharlal Nehru Technological University** — Hyderabad, India
  Bachelor's of technology; Major in Computer Science Engineering; GPA: 3.71 (9.1/10.0) — *Aug 2017 - Jul 2021*
  Courses: Design Analysis of Algorithms, Data Structures, Database Management, Object-oriented programming, Computer Architecture.

WORK EXPERIENCE

- **Thomson Reuters** — Carrollton, Tx
  Software Engineering Intern — *May 2023-Aug 2023*
  - **Customer Feedback Analysis System**: Developed and implemented a sophisticated Customer Feedback Analysis System using C#, AWS, and Microsoft SQL Management Studio, resulting in a **20% increase** in customer satisfaction ratings.
  - **Analysis Dashboard**: **Increased efficiency by 40%** by automating the data collection and analysis process through the Customer Feedback Analysis Dashboard using Power BI.

- **Thomson Reuters** — Hyderabad, India
  Associate Software Engineer — *Aug 2021-Aug 2022*
  - **Full Stack development**: Collaborated closely with a 7-member US-based team in developing full stack solutions using advanced **Oracle SQL Database** techniques, resulting in faster service delivery and reducing incidents by **40 %**.
  - **Health Monitoring System**: Constructed and modified alerting and logging monitoring systems utilizing **Datadog** technology with the **tech-ops** team to ensure seamless operation of load balancers and servers, enhancing system performance by **35 %** .
  - **Software System Update**: Built specialized software for products such as OTW, GST, Excel USIT Workpapers to facilitate global tax operations for corporate clients, impacting over 500 customers worldwide.
  - **URL Security Encoding**: Rigorously tested URLs with upgraded security coding to ensure compliance with **W3C standards**, achieving **success rate of 98 %**.

- **Thomson Reuters** — Hyderabad, India
  Technology Intern — *Nov 2020-Aug 2021*
  - **Insights into Dev, Testing, and DevOps.**: Attained knowledge of products related to Corporate and Trust Tax technology and explored areas of interest such as development, testing, and Devops.
  - **Upgrade UI Performance**: Optimized existing **8 UI components** for enhanced interface performance utilizing technology such as **Node.js and C#**, bolstering the workflow by **5 %**.
  - **Product feature Updates**: Wrote and maintained software code for **15 key-product features** according to specified guidelines, raising performance metrics by **20 % on average**.

ACADEMIC PROJECTS

- **Automatic Summary Generation from Log Data – Log data Visualizer**: This information visualization software allows users to perform exploratory data analysis on textual log data consisting of an analyst's various interactions to better understand their thought process and behavior. Using React and Tableau, this interactive dashboard preprocesses data using natural language processing. (Nov '22)
- **Bitcoin Mining**: A bitcoin mining algorithm which uses Erlang and actor model to implement cryptographic hashing for mining bitcoins. A bitcoin is an input that, when "hashed" produces an output smaller than a target value. In this algorithm we define multiple worker actors that are given a range of problems to solve, and a server keeps track of all the problems and performs job assignment. (Sept '22)
- **E − mall space management system offering various web service**: A virtual space management system, implemented in micro-service architecture where the marketing staff of a mall can book spaces online for sellers. Various mall services have been implemented using technologies such as Spring Boot Frameworks, React JS, Axios Libraries, and MySQL database. (May '21)
- **Sky detection algorithm used in image detection**: A complete implementation of a sky region detection algorithm within a single image using python, image processing, and energy optimization function. Used in autonomous ground robots and horizon detection applications. (May '20)

SKILLS SUMMARY

- **Languages**: Java, C++, Python, C# , .NET, HTML/CSS, React JS, Angular, JavaScript
- **Datbases**: Oracle SQL Datbases, SQL, PostgreSQL, AWS
- **Tools**: VS Code, Docker, Jupyter Notebook, Springboot, Datadog, Azure, GitHub, Tableau, Power BI, Postman, Microsoft Office
- **Certifications**: Database Design, Python for Data Science and AI, Machine Learning with Python, Create and Manage Cloud Resources - Google Developers Group , Architecture on Amazon Web Services -AWS Training and Certification