

Samuel Raj Gandla

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EDUCATION

- M. S. in Computer Science | New Jersey Institute of Technology**
Relevant Coursework: Data Mining, Web Systems and Development, Artificial Intelligence, Operating Systems, Data Structures and Algorithms, Internet and Higher Layer Protocols, Machine Learning, Data Analytics, and Information System.
- Graduation: May 2024
- B. Tech in Electronics and Communication Engineering | SRM Institute of Science and Technology**
Relevant Coursework: Digital Electronics, Advanced Analog Electronics, VLSI Design, Microprocessor and Micro-controller, Digital Signal Processing, Analog and Digital Communication, Python, and Computer Communication Networks.
- Graduation: May 2022

SKILLS

- **Languages:** C, C++, Swift, Python, Java, HTML5, CSS, JavaScript, SQL, Prolog, Scala, UNIX.
- **Tools & Software:** Linux, GIT, AWS, Xilinx, Pspice, AutoCAD, Erwin Data Modeler, ER Studio, Tableau
- **Frameworks & Databases:** TensorFlow, PyQT, MongoDB, SQL, Oracle, Teradata, BigQuery, Cloud Spanner, Cloud Datastore. emsep
- **Microcontroller:** STM32, Texas Instrument, Arduino, Raspberry Pi, VEX

EXPERIENCE

- Software Engineer**
June 2024 – Nov 2024

Shrive Solution LLC, Raleigh, NC

 - As an experienced Software Engineer with a Master’s in Computer Science, I’ve developed and analyzed software solutions using languages like Python, C++, and Java. My work includes improving system performance, deploying scalable applications, and leveraging technologies like TensorFlow and Flask to deliver innovative results..
- Teaching Assistant**
Jan 2024 – May 2024

New Jersey Institute of Technology, Newark, NJ

 - Conducted thorough student discussions for a class of 50, efficiently resolved over 250 inquiries, and rigorously assessed 130 projects and exams, boosting student comprehension by 25% and reducing errors by 20%.
- Intern**
Mar 2021 - April 2021

Electronics Corporation of India Limited (ECIL), Hyderabad, India

 - Created and verified an 8-bit ALU utilizing Verilog, cutting error rates by 30% and increasing output precision by 25% through robust bench testing and iterative development.
- Intern**
Mar 2020 - April 2020

Bharat Sanchar Nigam Limited (BSNL), Hyderabad, India

 - Composed tracking and operational stability, leading to a 30% decrease in downtime and a 20% improvement in user experience; leveraged wired (Fiber Optic, CAT) and wireless (Internet, Cellular, Wi-Fi) technologies, boosting reliability by 30%.

PROJECTS

- eCommerce Website**
 - Built eCommerce site with YML, Flask, Docker; improved deployment, scalability, and boosted retention 30%.
 - Deployed OpenAI API, reducing manual intervention by 70% and response times by 55%, boosting loyalty 22%.
 - Boosted website scalability, reliability, and slashed response time by 70% for a superior customer experience.
- Health Portal Web Application**
 - Implemented Python and SQL, streamlining data and scheduling; reduced latency 45%, revamped efficiency 30%.
 - Introduced advanced authentication and encrypted storage, enhancing security and cutting breach risks by 45%.
 - Developed patient-centric interface, boosting portal usage 35% and enhancing patient experience by 20%.
- Efficient Database Querying and Management Solution for Trading Systems**
 - Optimized queries, cut retrieval times by 80%, ensuring data integrity, and supporting trading system needs.
 - Automated data cleaning, boosting database efficiency, increasing speed 30%, and reducing redundancy 40%.
- Enhancement of Machine Learning Algorithm**
 - Liaised the Gated Recurrent Unit (GRU) model’s accuracy by 20% by implementing GRU-based neural networks.
 - Refined Kaggle dataset, achieving 95% cleanliness, speeding training by 35%, improving performance by 22%.
 - Fine-tuned machine learning hyper-parameters, leading to a 20% precision increase and a 22% accuracy boost in customer sentiment analysis models, driving more effective customer retention initiatives.

CERTIFICATIONS

- Meta Back-End Developer Professional Certificate – Coursera
- Python Data Structures and Algorithms + LEETCODE Exercises – Udemy
- Microcontroller Embedded C Programming: Absolute Beginners – Udemy