JONATHAN RAJ, KATIKALA

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SUMMARY

Results-driven Computer Science graduate with expertise in Python, Full-Stack & Software Development, and Git version control. Experienced in research, mentoring, and developing ML models, web applications, and CLI tools. Eager to apply and expand my skills in a dynamic environment to drive innovation and growth.

EXPERIENCE

Software Engineer | **Hendricks Chapel Syracuse University** | Syracuse, NY   (Feb 25 — Present)
- Developed engaging and responsive user interfaces with React, prioritizing user experience and accessibility.
- Optimized database performance and ensured data integrity through efficient query management and best practices.
- Built and maintained robust backend systems, contributing to seamless application performance.

Graduate Assistance | **State University of New York Polytechnic Institute** | Utica, NY   (Feb 24 — May 24)
- Spearheaded advanced ML research, including GANs, in collaboration with professors, while mentoring students and driving innovation in project execution and talent development.

Web Developer | **Multiplier AI Solutions** | Hyderabad, TG   (May 22 — Aug 22)
- Developed dynamic web applications using HTML, CSS, JavaScript, ReactJS, and MySQL and deployment process using XAMPP, cPanel, and FileZilla also including the WordPress Websites with an efficient Team.
- Built strong Client Communication and delivered website which is more efficient to manage project flow.

PROJECTS

Web Development | **Evangelical Chaplaincy Hendricks Chapel** | Syracuse, NY   (Feb 25 — Present)
- Specializing in React, Redux, and MongoDB, building dynamic and data-driven web applications.
- Experienced in integrating RESTful APIs using Fetch, ensuring seamless communication between frontend and backend.
- Proficient in cloud deployment and management on Vercel, leveraging AWS/Cloud storage for scalable and performant solutions.

Big Data Analytics | **Sri Indu College of Engineering and Technology** | Hyderabad, India   (Feb 22 — Mar 22)
- Built a big data analytics system in Java, utilizing APIs for user interface design and JDBC for robust database connectivity to process decades of breach data.
- Predicted data breaches with historical datasets, applying advanced analytics techniques to uncover trends and deliver actionable insights.

Software Testing | **SUNY Polytechnic Institute** | Utica, NY   (Aug 24 — Dec 24)
- Executed comprehensive software testing by reproducing and analyzing bugs in multiple coreutils versions using the Intel PIN Tool, enhancing system reliability.
- Diagnosed root causes to resolve, showcasing expertise in debugging, advanced tool-based analysis for assurance.

Role Management Portal | **SUNY Polytechnic Institute** | Utica, NY   (Feb 24 — Mar 24)
- Designed and developed a full-stack web application with role-based access control for five distinct employee roles, ensuring 100% functional accuracy.
- Utilized Flask for backend, MySQL for database management, and ReactJS for a user-friendly and efficient interface with scalable role-specific permissions to streamline organizational operations with a reliable solution

AWS Deep Racer | **SUNY Polytechnic Institute** | Utica, NY   (Oct 23 — Dec 23)
- Developed and deployed reinforcement learning models on AWS DeepRacer to optimize autonomous vehicle navigation, achieving improved track performance in virtual and physical environments.
- Demonstrated proficiency in AWS services, SageMaker to train, S3 Bucket to store data, simulate, and analyze machine learning models for autonomous driving.

EDUCATION

State University of New York Polytechnic Institute | **Utica, NY -** (GPA : 3.40)   (Jan 23 — Dec 24)
- Masters, Major - Computer Science (Database, ML, AI, Prompt Engineer, Algorithm & Complexity[Block-chain])

Sri Indu College of Engineering and Technology | **Hyderabad, TG -** (GPA : 3.00)   (Jul 18 — Jul 22)
- Bachelor, Major - Computer Science and Engineering

TECHNICAL SKILLS

- *Programming Languages*: Python (TensorFlow, PyTorch), Java (Object-Oriented Programming), C
- *Programming Logics*: SoftwareTesting, SDLC, Dataflow Models, Google Cloud, Azure, AWS Console, PyTorch, TensorFlow, Matlab, CI/CD Pipeline (DevOps-Conceptual)
- *Web Development*: HTML5, CSS3, JavaScript (React, Angular, Node), WordPress, mySQL, Django

CERTIFICATIONS

Machine Learning (Coursera) - (DeepLearning.Ai and Stanford University)
- Supervised Machine Learning | Advanced Learning Algorithms | Unsupervised Learning, Reinforcement Learning.