PRAGATHI KANALA

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EDUCATION

Master of Science in Computer Science: *3.60/4.0 GPA, May 2025*
Florida Institute of Technology, Melbourne, Florida, United States
Relevant Coursework: Computer Information Security, Database Management, Computer Vision, Artificial Intelligence

Bachelor of Engineering in Electronics & Communication: *7.8/10 CGPA, August 2021 (Awarded Distinction)*
PES Institute of Technology, Bangalore, Karnataka, India
Relevant Coursework: Programming in C and Data Structures, Analog Electronics, Digital Electronics, Network Analysis

CERTIFICATIONS:

- Have certification and hands-on experience in Cloud Fundamentals, AWS Cloud Content Management, and Apache Kafka from the Mphasis Limited platform.
- Gained Programming for Everybody (Getting Started with Python), University of Michigan, training from the Coursera platform.
- Attended training and have hands-on experience and certification on Restful web services, Java Microservices, Git, and DevOps Essentials from the Mphasis limited platform.

SKILLS

Programming languages: C, C++, Python, Java, Spring.
Web Services: Restful web services, Java Microservices, Git, Bitbucket, DevOps Essentials, Cloud Fundamentals, Cloud Content Management, Apache Kafka.
Scripting Languages: Wireshark, PowerShell.
Web Technologies: HTML, CSS, JavaScript, jQuery, React.js, Node.js, Lit, Typescript.
Databases: MySQL
Cloud and DevOps: AWS (EC2, S3, IAM, Lambda, RDS, VPC), Kubernetes (EKS, ECS), Docker, AWS CLI, CI/CD (CodePipeline, CodeDeploy).
Operating Systems: Linux, Windows.
Cyber Security: Privileged Account Management, Identity & Access Management.
Embedded Systems: Arm Cortex M3, Verilog, VHDL.
Simulators and Verification: Xilinx Vivado, MATLAB, Network Simulator 2, ARM Keil u, Vision Programming.

ACHIEVEMENTS

- Awarded first place by NA Global Law School for the 'Legal Literacy and Awareness Quiz'.
- Awarded Outstanding Student of the Year (2025) by the Department of Computer Science during Master's.

WORK EXPERIENCE

Temenos USA Inc., *Software Engineer, Orlando, FL, July 2025- Present*
Project Description:
- Built framework-agnostic web components with Lit and TypeScript aligned to the Temenos Design System.
- Delivered responsive, accessible UI that renders consistently across Chrome, Firefox, Edge, and Safari.
- Adopted reactive state patterns for predictable updates and easier maintenance.
- Optimized render cycles and Shadow DOM usage to improve perceived performance.
- Documented usage patterns and examples so product teams could plug components in faster.

Activities Performed:

- Worked on Front End in Hypergrowth Team to build Unified UX Web Components.
- Migrated imperative DOM to Lit with reactive state, reducing re-renders and UI bugs.
- Defined reusable patterns and lint rules, higher code reuse and consistent UI across squads.
- Fixed race conditions and render timing by auditing lifecycle and events, stabilized complex views under load.
- Worked on tech stack technologies in detail like Lit Web Components, TypeScript, JavaScript, JSON, Sass, Node.js, Webpack, Bitbucket, responsive web design, accessibility ARIA.

Mphasis Limited *Software Engineer, Bangalore, Karnataka, India,* September 2021- July 2023

Project Description:

- Developed a secure, high-performance banking platform integrating backend and frontend using Java, MySQL, HTML, CSS, and JavaScript.
- Built custom models and SAR (Suspicious Activity Report) forms to meet strict regulatory compliance.
- Contributed to RCT (Risk Management and Compliance Technology) for enterprise-wide risk detection and reporting.
- Implemented Actimize AML-SAM for anti-money laundering (AML) and suspicious activity detection.
- Worked with AIS (Actimize Integrated Surveillance) and RCM (Risk Case Manager) to manage alerts and follow-up actions.
- Utilized Actimize Customer Due Diligence (CDD) for risk-based AML compliance and customer lifecycle management.
- Ensured end-to-end risk management, focusing on customer impact minimization and compliance through dynamic, risk-based processes.

Activities Performed:

- Developed customized solutions on the Actimize platform using Actimize Risk Case Manager, AIS Modeler, Java, HTML, CSS, JavaScript, and MySQL.
- Created and enhanced RCM and AIS objects to meet client-specific requirements, boosting platform functionality and usability.
- Actively contributed to project planning, milestone management, and continuous skill development, ensuring timely and efficient delivery.
- Conducted strategic analysis of client data, crafting precise specifications and tailored solutions for improved risk management and compliance.
- Recognized for proactive project management and innovative problem-solving, significantly enhancing user satisfaction and operational efficiency.

OTHER PROJECTS

Recipe Finder – Full-Stack Web Application
Technologies and Tools Used: React.js, Node.js, Express, MongoDB, Mongoose, JavaScript, CSS, HTML5, AWS EC2
Developed a MERN stack recipe application with features to search, add, and favorite recipes using a responsive React frontend and MongoDB backend. Deployed the app on AWS EC2 with ingredient auto-suggestions and a dynamic card-based UI.

Handwritten Digit Recognition using Convolutional Neural Networks
Technologies and Tools Used: Python, TensorFlow, Keras, CNN, NumPy, OpenCV, Jupyter Notebook, Tkinter, Matplotlib.

Developed a CNN model using TensorFlow and Keras to accurately identify the digit '9' from the MNIST dataset. Integrated OpenCV for image preprocessing and built a real-time prediction interface with Tkinter. Ensured precise single-digit classification with error handling and demonstrated skills in deep learning, image processing, and model deployment.

Development of a Flutter-Based Agriculture Management Application Technologies and
Technologies and Tools Used: Flutter, Dart, TensorFlow Lite, LGBM Classifier
Developed Digi Farmer, a cross-platform Flutter app offering AI-driven insights for farmers, including weather updates, market prices, and crop monitoring. Integrated TensorFlow Lite and LGBM for disease detection and quality checks, with secure authentication, data encryption, and GDPR/CCPA compliance to support smart farming even in low- connectivity areas.