GOPIKA GOPAKUMAR

Software Developer

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https://portfolio-nine-ecru-44.vercel.app/

SKILLS

- **Programming Languages :** JavaScript (ES6), Python, SQL, HTML5, CSS3
- **Frameworks & Libraries :** React.js, Material-UI, Node.js, Next.js,Express.js
- **Database Management :** PostgreSQL
- **Version Control :** Git, GitHub
- **Cloud & IoT :** AWS Cognito, Arduino,Firebase
- **Soft Skills :** Effective Communication, Team Collaboration, Time Management, Problem-Solving, Attention to Detail

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WORK EXPERIENCE

Embedded Developer Intern (May 2025 – Present)
iOrbit Digital Technologies - Trivandrum, India

- Assisting in programming embedded systems for healthcare devices using C and Embedded C.
- Working with different microcontrollers and IDEs to develop and test basic firmware modules.
- Supporting integration of sensors and communication interfaces (UART, SPI, I2C) in embedded applications.

Software Developer (July 2022 – July 2024)
Xminds Infotech Pvt Ltd - Trivandrum, India

- Developed responsive and user-friendly web applications using React.js and Material-UI, improving user engagement by 25%.
- Integrated REST APIs to ensure efficient data handling and enhance application functionality.
- Designed and implemented graph visualisation tools, reducing data analysis time by 30%.
- Collaborated with cross-functional teams to achieve project goals within tight deadlines.
- Successfully delivered high-quality solutions under high-pressure situations.

PROJECTS

Datafree Portal - React.js, Material-UI, REST APIs, AWS Cognito

- Built an interactive web app for 500+ users to access and manage data.
- Developed responsive UI with Material-UI; integrated AWS Cognito for secure authentication.
- Connected REST APIs for real-time data updates; improved usability and reduced manual tasks.

Smart Irrigation System (Personal Project) - Arduino, Digital Moisture Sensor

- Designed an IoT prototype automating irrigation based on soil moisture data.
- Programmed Arduino to control water flow, improving water efficiency by 40%.

Diabetic Retinopathy Detection (Personal Project) - Python, TensorFlow, Keras

- Compared pre-trained deep learning models for detecting diabetic retinopathy.
- Evaluated models using accuracy, precision, and recall metrics; documented findings.

INTERNSHIPS & CERTIFICATIONS

Internship: Computer Hardware and Networking

Institution: APJ Abdul Kalam Technology University

- Completed a 50-hour internship gaining theoretical and practical knowledge of hardware components and networking.

Internship: Hardware-Software Co-Design, Sensor Interfacing, IoT Deployment

Institution: Keltron

- Gained practical experience in Python programming, sensor technology, and foundational web development.

Certification:The Complete 2024 Web Development Bootcamp by Dr. Angela Yu

- Topics Covered: Full-stack web development including HTML, CSS, JavaScript, React, Node.js, Express, and SQL.

EDUCATION

LBS Institute of Technology for Women - Trivandrum, India   (2018 – 2022)
Bachelor of Technology : **Information Technology**

- Coursework: Python Programming, Data Structures, Object-Oriented Programming, Web Development, Database Management.
- Completed internships to enhance hands-on experience in computer hardware, IoT, and foundational web development.