

# Sivaprakash Senthilnathan

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## PROFESSIONAL EXPERIENCE

### Senior Software developer intern

Cyborgeforge LLP

11/2024 – present  
Coimbatore, India

- Led a team of 5+ developers to build and deliver 5+ web applications.
- Reduced project delivery time by 30% using agile methods.
- Improved user engagement by 40% through optimized UI/UX.
- Worked with React, Node.js, and REST APIs to build scalable products.
- Mentored junior developers and improved team productivity.

## EDUCATION

### B.Tech in Computer Science and Business Systems (CGPA: 8.01)

Sri Krishna College of Engineering and Technology

2022 – 2026  
Coimbatore, India

### Higher Secondary (TNSB), Biomathematics (564/600)

Adharsh Vidyalaya Matriculation Higher Secondary School

2021 – 2022  
Anthiyur, Erode

## SKILLS

### Programming Languages

C, C++, Python, Java, JavaScript, Dart

### Machine Learning

LLM, ML Algorithms(supervised and unsupervised), Data Handling, NLP, Computer Vision

### Web Development

HTML5, CSS3, Next.js, TailwindCSS, Express.js, Node.js, MongoDB, MySQL, RESTful APIs

### App Development

React Native, Flutter

### Soft Skills

Communication, Leadership, Teamwork, Work Ethics, Adaptability, Organization, Problem Solving, Time Management, Creativity, Interpersonal Skills

### Tools

VS code, Jupyter, Android Studio, Xcode, MS Excel, Git, Github, Eclipse, Figma, AWS, Docker

### Concepts

OOP, Data Structures, Algorithms, SDLC, Version Control, Testing & Debugging, Agile, DBMS, Data Mining

## PROJECTS

### Hand Signs based controller for Hill Climb Racing

08/2024 – 09/2024

Machine learning Model

- Developed a Python-based gesture recognition system using MediaPipe, OpenCV, and neural networks, achieving 99% accuracy in gesture classification.
- Translated hand gestures into real-time keyboard inputs, enabling interactive control for assistive tech and user interfaces.
- Implemented machine learning and computer vision techniques to ensure high precision and minimal latency.
- Built using scalable and modular code architecture, allowing for seamless integration into third-party systems.

- Optimized model performance and system responsiveness, reducing input lag by over 20%.

### Document QA Web App

10/2024 – 11/2024

*Document processing tool*

- Built a React.js frontend and Flask backend for a document processing web app, enabling users to upload documents and interact via a Q&A interface.
- Integrated Large Language Models (LLMs) to extract answers and generate summaries, improving document comprehension efficiency by up to 70%.
- Implemented features to download summarized content, enhancing user convenience and engagement.
- Ensured seamless frontend-backend integration, maintaining fast response times and a smooth user experience.
- Followed modular, reusable coding practices for maintainability and future scalability.

### Yogamitra

09/2024 – 12/2024

*Smart Yoga Mat(IoT)*

- Developed a cross-platform mobile app using React Native, deployed on Android and iOS.
- Integrated with a smart yoga mat and smartwatch via Bluetooth, enabling real-time posture correction and heart rate monitoring with 95% data accuracy.
- Reduced app latency by 30%, ensuring real-time sensor feedback during workouts.
- Increased user engagement by 45% through personalized yoga session recommendations based on live sensor analytics.
- Designed and implemented a responsive UI/UX with over 95% user satisfaction based on post-session feedback.
- Achieved 99.9% crash-free sessions through rigorous testing and performance optimization.

### E-Commerce Websites for drones

11/2024 – 12/2024

*Next.js Website using Firebase for backend*

- Designed, developed, and deployed a full-stack e-commerce website for a drone-selling startup using Next.js and Firebase, hosted on Vercel for high availability and speed.
- Implemented user authentication, dynamic product listings, and cart/checkout management, improving operational efficiency and supporting secure transactions.
- Enabled real-time database interactions and user session management, reducing page load times by 40% and ensuring a smooth user experience.
- Achieved 99.9% uptime and mobile responsiveness across devices, increasing user engagement by 30% during the initial launch phase.
- Collaborated with a cross-functional team to deliver the MVP within 4 weeks, meeting all client requirements and timelines.

## AWARDS

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### Smart India Hackathon 2024

16/12/2024

*AICTE*

Finalist for the problem statement ID - SIH1556

## CERTIFICATES

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### Google AI Essentials

Google AI Essentials is a self-paced course designed to help people across roles and industries get essential AI skills to boost their productivity, zero experience required. The course is taught by AI experts at Google who are working to make the technology helpful for everyone.

### UiPath Academy RPA Citizen Developer Foundation Training

The UiPath Academy RPA Citizen Developer Foundation Training is a collection of curated courses to teach business users to become citizen developers for robotic process automation using UiPath StudioX.

### Foundations of Cybersecurity

Certified by google and coursera

## DECLARATION

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I declare that all the information provided is true to the best of my knowledge and belief