ARKAPRAVO GHOSH

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EXPERIENCE

Junior Software Engineer   Aug 2025 – Present
Goodfit   Full-time, Remote

- Architect, develop, and maintain the Goodfit platform, delivering high-performance features and optimizing existing functionalities for scalability and reliability.
- Collaborate with cross-functional teams including designers, product managers, and QA engineers to implement responsive, user-friendly interfaces aligned with UX best practices.
- Produce clean, maintainable, and well-documented code; perform peer code reviews to enforce coding standards and reduce defects.
- Leverage React.js, Next.js, TypeScript, Tailwind CSS, PostgreSQL, and REST API integration to build reusable front-end and back-end components.
- Apply Kanban methodology to manage continuous delivery workflows, track tasks efficiently, and ensure rapid, high-quality releases.

Software Development Engineer   May 2025 – Aug 2025
PredictGrowth   Full-time, Remote

- Engineered and enhanced the PredictGrowth AI Platform, implementing REST APIs and optimizing database queries to improve platform responsiveness by 10%.
- Introduced efficient state management in the front-end, reducing load time by 20% and improving user experience.
- Collaborated in Agile sprints, ensuring timely delivery of features while maintaining high code quality through automated testing and code reviews.
- Integrated cloud infrastructure services on AWS to improve system scalability and fault tolerance.

Software Development Engineer   Feb 2024 – May 2025
RevMaxx   Part-time, Hybrid

- Designed, built, and maintained the backend architecture for the RevMaxx AI Platform, enabling rapid onboarding of enterprise clients.
- Improved platform performance by 30% through database query optimization and implemented WebSocket-based real-time data transfer, increasing responsiveness by 20%.
- Applied security best practices by enforcing authentication, access control, and dependency management, resulting in zero critical vulnerabilities.
- Utilized Docker for containerization and Git-based CI/CD pipelines for continuous integration and deployment.

Software Development Engineer   Sep 2024 – Nov 2024
Rad Media Solutions   Part-time, Remote

- Developed custom enterprise-grade software solutions using Angular, RESTful APIs, and cloud-based deployment strategies.
- Conducted requirement gathering sessions with clients to ensure delivered solutions met business needs and technical specifications.
- Optimized applications for cross-browser compatibility and responsive design to ensure seamless multi-device usage.

Software Development Engineer   Jul 2024 – Aug 2024
Avinya NeuroTech   Part-time, Remote

- Developed and maintained the frontend for Avinya NeuroTech's AI-driven healthcare analytics platform, improving accessibility and reducing the onboarding time for new users.
- Implemented responsive design principles, optimized performance for cross-device compatibility, and integrated REST APIs with WebSocket technology to deliver secure, real-time data insights.

Software Development Engineer   Apr 2024 – May 2024
Connect AI   Freelance, Remote

- Implemented front-end features and reusable UI components for the Connect AI Platform, ensuring alignment with UX/UI design guidelines.
- Collaborated with backend developers to integrate RESTful APIs, improving feature delivery speed.

Software Development Engineer   Jun 2023 – Dec 2023
PepHub   Part-time, Remote

- Configured and deployed applications on AWS and DigitalOcean, increasing scalability by 40% and improving uptime.
- Built secure CI/CD pipelines using Git and Docker, reducing deployment time by 30% and eliminating downtime during releases.
- Developed the [PepHub Consultancy Website](#), increasing lead generation and client acquisition.
- Maintained the company's software infrastructure and internal tools to ensure continuous availability and performance.

SKILLS

- **Programming Languages:** JavaScript, TypeScript, Python, Bash/Shell Scripting
- **Frontend Development:** React.js, Next.js, Angular, React Native, SCSS, Tailwind CSS, Responsive Web Design, UI/UX Design (Figma)
- **Backend Development:** Node.js, Express.js, FastAPI, RESTful APIs, WebSocket Integration

- **Databases:** MySQL, MariaDB, PostgreSQL, MongoDB
- **DevOps & CI/CD:** Linux (GNU/Linux), Git, GitHub, Docker, Docker Compose, Networking, Jenkins, Kubernetes, CI/CD Pipeline Automation
- **Cloud Platforms:** Google Cloud Platform (GCP), Amazon Web Services (AWS), Microsoft Azure, DigitalOcean
- **IoT & Embedded Systems:** Arduino, Raspberry Pi, Node-RED

EDUCATION

Bachelor of Technology in Computer Science and Engineering   Expected 2026
(IoT, Cybersecurity and Blockchain Technology)
University of Engineering and Management, Kolkata   7.44 GPA

PROJECTS

- **Speech To Text API:** Developed an open-source RESTful API for speech-to-text conversion using Python, FastAPI, and OpenAI's Whisper v3 model via HuggingFace Transformers. Implemented audio preprocessing, asynchronous processing, and JSON-based responses for scalable integration.
- **Smart Parking System:** Engineered an IoT-based parking management solution using Raspberry Pi, Node.js, Express.js, and React.js. Designed a real-time slot availability tracker using WebSockets and integrated with a responsive web dashboard for live monitoring.
- **Biometric Attendance Management System:** Built an IoT-powered attendance tracking system with fingerprint authentication using Python, MariaDB, Raspberry Pi, and a biometric fingerprint sensor. Designed an admin console for record management and automated data synchronization.
- **ICD-10 Medical Coding Scraper:** Created a web scraping utility in TypeScript with Node.js and Cheerio to extract and update ICD-10 medical codes from icd10data.com, storing results in structured JSON format for healthcare application integration.