

ARKAPRAVO GHOSH

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EXPERIENCE

Junior Software Engineer

Goodfit

Aug 2025 – Present

Full-time, Remote

- Architect, develop, and maintain a high-performance platform using React.js, Next.js, TypeScript, Tailwind CSS, PostgreSQL, and REST APIs.
- Optimize scalability and reliability through clean code practices, peer reviews, and Kanban-based workflows.

Software Development Engineer

PredictGrowth

May 2025 – Aug 2025

Full-time, Remote

- Enhanced AI platform performance by 10% via optimized REST APIs and database queries.
- Implemented state management improvements, reducing load times by 20%.
- Integrated AWS services for scalability and fault tolerance.

Software Development Engineer

RevMaxx

Feb 2024 – May 2025

Part-time, Hybrid

- Built and maintained backend architecture enabling enterprise client onboarding.
- Increased performance by 30% through database optimization and WebSocket-based real-time data transfer.
- Secured system with authentication, access control, and dependency management.

Software Engineer — Multiple Clients & Companies

Avinya NeuroTech, Connect AI, Rad Media Solutions, PepHub

Jun 2023 – Nov 2024

Freelance & Part-time, Remote

- Developed and maintained front-end and back-end systems using Angular, React.js, Node.js, FastAPI, and REST/WebSocket APIs.
- Delivered IoT-enabled solutions on Raspberry Pi for healthcare analytics and parking management.
- Deployed applications on AWS/DigitalOcean, implemented CI/CD pipelines with Docker, Git, and Jenkins.

SKILLS

Programming: JavaScript, TypeScript, Python, Bash/Shell

Frontend: React.js, Next.js, Angular, React Native, SCSS, Tailwind, Responsive Design, Figma

Backend: Node.js, Express.js, FastAPI, REST, WebSocket

Databases: MySQL, MariaDB, PostgreSQL, MongoDB

DevOps: Linux, Git, GitHub, Docker, Docker Compose, Networking, Jenkins, Kubernetes, CI/CD

Cloud: AWS, GCP, Azure, DigitalOcean

IoT: Arduino, Raspberry Pi, Node-RED

EDUCATION

B.Tech in Computer Science and Engineering (IoT, Cybersecurity, Blockchain)

University of Engineering and Management, Kolkata

Expected 2026

GPA: 7.44

PROJECTS

Speech To Text API: RESTful API for speech-to-text conversion using Python, FastAPI, and OpenAI Whisper v3 via HuggingFace. Features audio preprocessing, async processing, and JSON outputs.

Smart Parking System: IoT-based parking management with Raspberry Pi, Node.js, and React.js. Real-time WebSocket updates with responsive web dashboard.

ICD-10 Medical Coding Scraper: TypeScript-based scraper using Node.js and Cheerio to extract ICD-10 codes into structured JSON for healthcare integrations.