

Upnit Banga

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SUMMARY

Software Engineer with hands-on experience delivering production-ready web applications for clients. Strong backend and frontend focus with Node.js, Django, PostgreSQL, distributed systems, Next.js, TailwindCSS, combined with 10+ years of Solutions and Integration Engineering experience. Proven ability to design, build, deploy and document scalable systems with payments, messaging, and cloud infrastructure.

EXPERIENCE

Software Developer | Self-Employed

Dec 2023 – Present

Publishing Platform | [Github](#) | [Live](#)

- Built, designed and deployed a Medium-like publishing platform featuring rich-text editor, SEO-optimized content delivery, secure payments, and a Dockerized AWS deployment.
- Designed database schema, REST APIs, and authentication flows.
- **Backend:** Node.js /Express, PostgreSQL (Supabase, Prisma)
- **Frontend:** Next.js with TailwindCSS, shadcn UI
- **Infrastructure:** Docker, AWS EC2, Nginx
- **Payments:** Paypal
- **Monitoring:** Sentry, Pino
- **Project deployed on AWS EC2** and delivered to client with private client codebase, and a public architecture and deployment documentation.

Retail E-Commerce Platform | [Github](#) | [Live](#)

- Built, designed and deployed a full e-commerce solution for a retail company (product management, shopping cart, secure checkout, user-accounts, email verifications, order lifecycle).
- Integrated PayPal Orders API (create/capture flow)
- Client business later shut down ; platform retained and refactored into production-ready reusable template
- **Backend:** Django, PostgreSQL (Neon)
- **Frontend:** Django Templates with Bootstrap
- **Media Handling:** Cloudinary
- **Infrastructure:** Dockerized for cloud environment , Koyeb
- **Payments:** Paypal
- **Documentation:** OpenAPI

Microservices Backend System | [Github](#) | [Live](#)

- Built and deployed a scalable event-driven micro-services backend with API gateway and distributed backend services (fault tolerance) for a social media platform featuring real-time communication between services
- **Backend:** Express.js
- **Cloud Database:** MongoDB Atlas
- **Caching:** Redis
- **Asynchronous Service Communication:** RabbitMQ
- **Documentation:** OpenAPI, Redoc

Enterprise Account Executive Appcast	Oct 2022 – Jul 2023
<ul style="list-style-type: none"> Partnered with clients to understand complex business requirements and contribute in the design and development of customized programmatic software solutions, that drove an average 15% increase in client ROI. Acted as a technical subject matter expert, providing in-depth product demonstrations and technical guidance, directly contributing to a 15% growth in client adoption and sales. 	
Senior Solutions Engineer Teltonika	Aug 2020 – Oct 2022
<ul style="list-style-type: none"> Designed and integrated APIs, SDKs in AWS based software to enable seamless interoperability with client systems reducing onboarding time by 30%. Owned full POC lifecycle using Github Actions and AWS EC2: requirement gathering, integration, deployment, monitoring. Refined and optimized software designs, APIs in collaboration with product engineering teams to ensure optimal implementation and reduce errors by 18%. Collaborated with engineering teams for implementing new features, network protocols, backend programming and system architecture. 	
Solutions Engineer Teltonika	Aug 2019 – Aug 2020
<ul style="list-style-type: none"> Collaborated with product engineering team to design and develop new software features based on user and operational requirements. Assisted in troubleshooting (debugging) and resolution of complex technical issues during solution implementation, minimizing downtime and achieving a 95% client satisfaction. Collaborated with engineering teams to architect and implement a new feature and backend optimizations using JavaScript for handling a 50% increase in user volume and data load. 	
Senior Sales Engineer Rays Power Infra	Jun 2016 – Jan 2019
<ul style="list-style-type: none"> Created technical specifications and requirements for SCADA software platform and solar projects, streamlining the design process and reducing project scoping time by 20%. Collaborated with product engineering teams to design and implement APIs and software features, ensuring timely and budget compliant project delivery on 100% of managed projects. Managed technical queries and support for API integration, beta deployments and proof-of-concepts. Led proof-of-concept design and implementation with client systems resulting in 90% successful client adoption. 	
Technical Account Manager Rays Power Infra	Apr 2013 – Jun 2016
<ul style="list-style-type: none"> Analyzed client usage data and health checks identify opportunities for cross-selling and up-selling, resulting in a 55% revenue growth from existing clients. Conducted technical demonstration of new platform features for existing clients, effectively answering intricate technical queries and showcasing system functionality to upsell an average 5 clients per quarter. Prepared technical documents for internal engineering teams based on client project specifications ensuring precise communication and alignment. 	

PROJECTS

Portfolio Website | [Github](#) | [Live](#)

- Built and deployed a modern, minimal and full responsive developer portfolio. Includes animated page transitions, a project slider, resume/experience tabs, and a production ready contact form that sends emails via Resend.

AI Recipe Generator | [Github](#) | [Live](#)

- Developed an interactive single-page web application that generates recipes based on user input using a large language model (LLM) API.
- Managed component state, asynchronous API calls, and responsive UI design for modern UX.
- Frontend: React.js, TailwindCSS
- Artificial Intelligence LLM: Claude API

File Server | [Github](#)

- Built a high performance, light-weight system-level file server implementation with C++, leveraging POSIX socket APIs to handle client-server communication for efficient file transfer operations.

SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, HTML, CSS3, C++

Frameworks/Libraries: React.js, Next.js, Nest.js, Node.js, Express.js, Django, FastAPI, Tailwind CSS

Databases: PostgreSQL, MongoDB, Sqlite, MySQL, Redis

Tools & Platforms: Git, Github Actions, Docker, AWS (EC2, S3), RabbitMQ, WebSockets, Cloudinary, JWT Authentication, Postman

Software Practices: REST API Development, Caching, Rate Limiting, Authentication & Authorization, Unit/Integration Testing, Version Control (Git), CI/CD

EDUCATION

Harvard University

Computer Science - CS50 / Online

Aug 2023 – Nov 2023

University of Petroleum and Energy Studies

Masters of Business Administration

Aug 2011 – May 2013

Delhi University

Bachelor of Science - Electronics

Aug 2007 – May 2010