

# 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

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### 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

- 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

- 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

- 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

- 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

- 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

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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

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**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

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**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