

# Upnit Banga

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## SUMMARY

Software Developer with hands-on experience in designing, building, and deploying scalable software applications. Leveraging a decade of expertise as a Solutions Engineer building client-facing technical solutions, API integrations, system architecture, and proof-of-concepts. Proven ability to bridge the gap between complex business requirements and modern technical solutions.

## EXPERIENCE

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### Software Developer | Projects

Aug 2023 – Present

Microservices Backend System | Express.js, PostgreSQL, RabbitMQ

- Designed and implemented an **API gateway** and **distributed backend services** using microservices for scalability and fault tolerance.
- Integrated **asynchronous communication between services** with RabbitMQ and server caching with Redis.
- **Containerized services using Docker** making it ready for deployment, local orchestration.

E-Commerce Platform | Python, Django, PostgreSQL, PaypalAPI, Bootstrap

- Designed and built a **full stack, production-grade e-commerce platform** supporting product management, shopping cart, and checkout
- Integrated **PayPal Orders API** for secure payments and implemented user authentication with email verification.
- Developed **custom Admin dashboards** for order and inventory management.

File Server Backend | C++, POSIX sockets, Multithreading

- Built a **multi-client file server supporting binary transfer** and chunked data communication using TCP sockets.
- Utilized **multithreading to handle concurrent clients** for increased throughput and transfer efficiency.

AI Blog Platform | Python, Django, PostgreSQL, OpenAI API, AssemblyAI

- Created a web application that generates blog posts from Youtube video transcripts **using AI models**.
- Implemented **user authentication, CRUD APIs**, and secure environment variable management for deployment.

AI Recipe Generator | React.js, Claude API, TailwindCSS

- 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.

### 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%**.
- 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**.

## SKILLS

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

**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, Docker, AWS, 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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<b>Harvard University</b> <i>Computer Science - CS50   Online</i>	<i>Aug 2023 – Nov 2023</i>
<b>University of Petroleum and Energy Studies</b> <i>Masters of Business Administration</i>	<i>Aug 2011 – May 2013</i>
<b>Delhi University</b> <i>Bachelor of Science - Electronics</i>	<i>Aug 2007 – May 2010</i>