

# Aakash Khanal

From server-side to client-side, I turn ideas into fully functional web applications.

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## EDUCATION

### Bachelor in Computer Engineering

Advanced College of Engineering (TU)  
2019 – 2024

## AWARDS

### PythonBytes 2021 Winner

First Position in Python Bytes 2021 organized by Advanced Robotics Club(ARC)

### Provathon Second Runner-Up

Third Position in Provathon Purbanchal 2021 organized by CSIT Association of Nepal

## SKILLS

### Languages

Typescript, JavaScript, SQL (PostgreSQL, MySQL)

### Libraries & Frameworks

Node.js, Next.js, React, Vite, Tailwind CSS, Zustand, TanStack Query, SCSS, Drizzle ORM, Prisma ORM, GraphQL, Knex.js.

### Tools

Git, GitHub, Neovim, Figma, IMEPay (Payment Gateway), SparrowSMS

## LANGUAGES

- English
- Nepali
- Hindi

## EXPERIENCE

### Awakened Devs • Mid Fullstack Developer

Bhaktapur, Nepal • July 2024 - Present

- Application Development:** Designed and developed a ticket booking application, focusing on system architecture, database design, and backend API production using *Node.js*, *Drizzle ORM*, and *PostgreSQL*.
- Frontend Integration:** Ensured seamless integration with the frontend using *Next.js*, *Tailwind CSS*, and *TypeScript* for a smooth user experience.
- Payment & SMS Integration:** Implemented payment solutions using *IMEPay* and *SparrowSMS* for secure transactions and SMS notifications.
- Database Management:** Managed and optimized data workflows in *PostgreSQL*, ensuring scalability and performance.
- Team Leadership:** Led a team of developers, delegating tasks, tracking progress, and meeting project deadlines.

### Channakya Soft • Junior Fullstack Developer

Kathmandu, Nepal • 2023 – 2024

- API Integration:** Integrated pre-developed *RESTful* and *GraphQL* APIs into the frontend, ensuring seamless functionality and a smooth user experience.
- Frontend Development:** Developed and optimized user interfaces using *Typescript*, *Vite*, *Tailwind CSS*, and *Node.js*.
- Backend Contributions:** Created and enhanced *GraphQL* APIs to improve system capabilities and functionality.
- Database Management:** Worked with *PostgreSQL*, *MySQL*, and *Knex.js* to handle data storage and retrieval efficiently.
- Collaboration and Growth:** Collaborated with senior developers, leveraging mentorship opportunities to improve both technical and professional skills.

## SELECTED PROJECTS

### Visualization of Dijkstra's Algorithm

- Developed an interactive visualization tool for Dijkstra's shortest path-finding algorithm using *Typescript*, *Vite*, *SCSS*, and *React*.
- Enabled users to set start and end nodes, draw obstacles, and observe the algorithm's step-by-step calculation of optimal paths while avoiding obstacles.
- Provided a clear and intuitive visual representation of the algorithm's internal processes, enhancing user understanding of pathfinding techniques.

### A Version Control System Like Git

- Implemented a custom version control system inspired by Git, leveraging *Typescript* and *Shell scripting* to understand foundational concepts.
- Built features for commit management, staging, commit restoration and history tracking.
- Explored advanced version control principles, including *Directed Acyclic Graph (DAG)* structures, index staging, and efficient storage mechanisms.