

# Aakash Bagale Thapa

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## EXPERIENCE

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### Software Developer II, *Avinto IT*

March 2024 – Present

- Led a technical team of 3, building AI-driven business development platform, HugoAssist, especially catered to the Norwegian market.
- Implemented asynchronous task handling with **Celery** and **RabbitMQ** to ensure scalability and reliability
- Managed end-to-end **Azure** deployment, including setting up **CI/CD** pipelines for streamlined production workflows
- Built a scalable backend in Django, following MVC architecture to support robust business logic and integrations
- Played a client-facing role, gathering requirements, providing updates, and ensuring alignment with client expectations
- Developed a high-performance frontend using Next.js, including dynamic chat interfaces and complex UI logic

### Contract Mobile Developer, *BookToks*

Nov. 2024 – Jan. 2024

- Worked on **EPUB rendering** for E-Book view, customization, annotation, search, and navigation. Utilized Expo **React Native** for cross-platform mobile application compatibility, ensuring seamless performance on both Android and iOS.
- Developed efficient REST APIs with **Django** and Django Ninja, integrating **PostgreSQL** and **Supabase** for scalable and secure backend solutions. Utilized bucket storage. Wrote Python scripts for **API testing**.
- Streamlined state management with **Redux Toolkit** and **RTK Query**, reducing API call redundancy by 40% & improving data synchronization. Implemented clean and reusable components & modals/sheets, hooked them with efficient state logic.

### FullStack Engineer - Part Time , *likhitnepal.com*

Sep. – Dec. 2024

- Built an Open Source Nepal driving license exam prep and resource hub platform.
- Engineered **HashMaps for rehydration** accomodating **Zustand** dynamic and optimized global state creation & management. Optimized TTI by 30%. Integrated map navigation, test and review systems, and color blind testing.
- Utilized NextJs and Tailwind for frontend and responsiveness across devices. Reduced LCP by 20% using lazy load and SSR.

### Contract Full Stack Jr. Engineer, *TicketShack*

Sep. – Nov 2024

- Optimized frontend to figma accurate design using **NextJs** and tailwind. Ensured responsiveness across devices
- Employed Zustand for robust global state management. Implemented efficient SSR and CSR. Reduced CLS by 40%
- Integrated **Tanstack Query**. Reduced redundant calls by 60% and server load by 30%

### Web Developer, *Uunchai*

May – July 2024

- Built Bhanu, an AI powered Nepali folk story-recitation web app and bot.
- Utilized Nextjs and tailwind. Optimized responsiveness and UX/UI
- Collected 3400+ folk stories via surveys and web-scraping. Fine-tuned Google Gemini. 600+ users monthly

## PROJECTS

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### CodeGaurdian | *SonarQube, NextJS, PostgreSQL, Docker, Python, NodeJS, Git*

- Developed a tool to monitor and flag declining code quality in open-source repositories.
- Integrated SonarQube to analyze code quality, identifying bugs, and code complexity. Stored data in PostgreSQL for historical trend analysis and reporting.
- Built robust APIs in Node.js. Automated repository initialization with Python and Git scripting

### Zappi | *Kafka, NodeJS, NextJS, TurboRepo, Typescript, Prisma*

- Developed an automation tool like zapier using Turbo Repo for efficient monorepo management
- Implemented real-time event streaming with Kafka to ensure seamless data flow. Engineered API integrations using webhooks for smooth automation workflows
- Built backend services in Node.js with Prisma ORM for streamlined data modeling. Utilized PostgreSQL as the database for scalable and efficient data management

### Ask Things | *NextJS, Tailwind, ShadCN, ClerkAuth, MongoDB, Python, Typescript*

- Built a Next.js-powered social platform. Developed around 13,000 lines of code using reusable components for scalability and maintainability
- Leveraged MongoDB for efficient data management, and integrated Clerk-Auth for secure user authentication. Utilized ShadCN and other tools to enhance UI/UX and streamline development.

### Hamro Chess | *ReactJS, NodeJS, TypeScript, Tailwind, WebSockets*

- A React and Node.js multiplayer chess platform. Used native websockets for real time communication.

### Foodier | *CNN, Tensorflow, Python, Colab*

- Built and trained a Food image Classifier using Deep Learning Convolution Neural Networks(CNN) in Tensorflow
- Used transfer learning and fine-tuned the EfficientNet model on 101 classes of food items

### Diapred | *SVM, Scikit-learn, Python, Colab*

- Built and trained a Diabetes prediction ML model using SVC (Support Vector Classifier) in scikit learn.
- Used kaggle dataset of 100,000 plus record size. Ran data cleaning, preprocessing, and EDA. Achieved an accuracy score of 96% on the test set.

TECHNICAL SKILLS

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**Languages:** JavaScript, Typescript, C++, Python, Java, Kotlin, SQL, Git, Docker  
**Web/App Developement:** Next..JS, React.JS, React Native, Tailwind, NodeJs, Django, NestJS, MongoDB, Postgresql, Firebase, Supabase, Convex, Prisma, Turbo Repo, Kafka, SonarQube, Zustand, Redux, TanstackQuery  
**Data science and Automation:** Numpy, Pandas, Matplotlib, Scikit-Learn, Tensor-Flow, openCV, Langchain

HONORS

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Placed 6th in National Engineering Entrance Exam - IOE (#6/10,000+). Indian Compex Scholarship Qualifier (worth \$15,000+)