

# ANURAG BASKOTA

Software Engineer

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I'm a prospective M.S./Ph.D. student and a software engineer specializing in building and deploying scalable, fault-tolerant and reliable microservices. I like researching new ideas and finding better, faster way to improve what already works. I'm actively looking to collaborate on reasearch with professors, especially using and improving AI to enhance software systems and developer workflows.

## RESEARCH AREA

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- Distributed Systems
- Software Engineering
- AIOps for microservices
- AI for Optimization

## EDUCATION

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### Bachelors in Software Engineering

*Nepal College of Information Technology*

Nov, 2018 - Aug, 2023

*Lalitpur*

Completed Bachelors in Software Engineering with 3.36 CGPA.

### High School Education in Computer Science

*United Academy*

Jul, 2016 - Jul, 2018

*Lalitpur*

Completed High School education with 3.02 CGPA.

### School Level Certificaiton

*Kantipur English High School*

*Kathmandu*

Completed School Level Eduction with 3.35 GPA

## WORK EXPERIENCE

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### Sr. Software Engineer

*Buildora Technologies, Inc.*

Jul, 2025 - Present

*San Francisco, California*

- Designed a deployment architecture using Terraform for effective collaboration and deployment.
- Implemented user registration and login feature using AWS Congnito.
- Handled step payment workflow using AWS Step Function, implementing Stripe payment gateway.
- Guided team member with AWS resources creation and backend logics.
- Used:Step Function, Lambda Funciton, DynamoDB, Congnito, S3 Bucket, API-Gateway, CloudFront.

### Software Engineer

*Smart Ideas Pvt. Ltd (Hamro Patro)*

Jun, 2024 - Jun, 2025

*Siphal, Kathmandu, Nepal*

- Handled google calendar recurring event's decoding the recurrence pattern provided by google, resulted in efficient syncing of users calendar.
- Designed and implemented backend for subscription service with G-Pay and Apple Pay functionality for user to buy a subscription plan.
- Guided interns and junior developers with backend issue and clean code practices.

- Used: Micronaut, AOP, Redis Cache, Elastic Search, Scylla DB, TDD.

### **Associate Software Engineer**

*Smart Ideas Pvt. Ltd (Hamro Patro)*

Mar, 2023 - Jun, 2024

*Siphal, Kathmandu, Nepal*

- Used gRPC to communicate with different in-house project like SMS service, push notification service and chat service, making stable notification service.
- Migrated legacy code from Spring-boot to Micronaut, implementing NATs as pub-sub model and Cassandra as database improving performance and scalability for telehealth service.
- Implemented news crawler functionality by storing the encodings of news-data in chroma-db and suggesting the similar news calculating the vector distance.
- Designed and implemented google calendar sync functionality, using hexagonal architecture following clean code practices.
- Used: Micronaut, Redis Cache, Websocket, Elastic Search, Scylla DB, NATs, gRPC, Chroma-Db.

### **Software Engineering Intern**

*Smart Ideas Pvt. Ltd (Hamro Patro)*

Dec, 2022 - Mar, 2023

*Siphal, Kathmandu, Nepal*

- Designed and implemented appointment booking functionality in backend, allowing user to efficiently buy the appointment slots prior resulting increase in product revenue.
- Fixed the issue related to payment and implemented payment gateway like Khalti and Hamro Pay for user convenience.
- Controlled live call state using Websocket, to continuously communicate with frontend maintaining a stable call connection.
- Used: Spring Boot, gRPC, JPA, PSQl, Cassandra Db, Google Datastore, Spring AOP, JWT, Redis Cache, Guava Cache, Websocket.

## **PROJECTS**

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### **Facial Recognition Attendance System**

*It is an attendance system with emotion detection created for final college project. I along with other three team member completed this project.*

- Designed and implemented backend system and database.
- Collected and pre-processed images for training the model from Labelled Faces in the Wild and from own datasets.
- Tested different models and algorithms for maximising the accuracy and integrated facial-recognition model with backend yielding 70 %.
- Used: OpenCV, DeepFace, Pandas, SQLiteDatabase, Flask, Jinja2, HTML, CSS, Plotly, JavaScript

### **Hamro-Mistri**

*This project aimed at tackling the problem caused by the COVID-19 pandemic by providing jobless skilled workers a platform to sell their service. It was a group college project completed during 3rd and 4th semester.*

- Designed and developed backend logics for rating functionality, booking functionality and api's for frontend integration.
- Designed database schemas, normalizing it make it more redundant and improving data integrity.
- Implemented api's in frontend for interactive User Interaction using React JS.
- Used: Spring-Boot, React JS, IntelliJ, VS Code, Miro, GitHub, Postgres, Tailwind CSS.

## SKILLS

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<b>Programming Languages</b>	Java, JavaScript, Python, C++
<b>Database Management</b>	PostgreSQL, Scylla, DataStore, Elastic Search, Redis
<b>Frameworks</b>	Spring Boot, Micronaut, React
<b>Cloud-Based Technologies</b>	AWS, Docker, Google Cloud Platform, Kubernetes
<b>IDLs</b>	REST API, gRPC
<b>Messaging Middleware</b>	NATs, Apache Kafka
<b>Version Controls</b>	Git, GitHub, Bitbucket
<b>Software</b>	IntelliJ, Miro, VS Code, Docker Desktop, Lens, StartUML
<b>Architecture</b>	Hexagonal Architecture, Test Driven Development
<b>Soft Skills</b>	Leadership, Communication, Problem-Solving, Time Management, Teamwork, Decision Making, Mentoring
<b>Technical Skills</b>	Microservices Architecture, Cloud Computing, Data Visualization, Object-oriented programming, Asynchronous Programming, Event-Driven Architecture, Data Structures and Algorithms, Software Development Life Cycle, Server Side Event

## EXTRACURRICULAR ACTIVITIES

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### **Rotaract Club of Sukhedhara**

*Vice-President*

- Orchestrated the planning and execution of community service projects like Maturational Hygiene Program and Scholarship Distribution Program.
- Coordinated with local organization to organize events like blood donation and locality clean-up program.
- Collaborated with Roatary International for funding and club operations.
- Mentored juniors and facilitated leadership development program.

### **Nepal Open Source Club (NOSK)**

*Member*

- Organized workshop on Linux installation and configuration.
- Guided juniors by helping them with the programming lanugage like Java, JavaScript and Python.
- Promoted open-source software to encourage it's adaption for development and everyday use.
- Organized Software Freedom Day by educating participants about open source software from different guest speakers.

## REFERENCE

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### **Dipendra Niraula**

*Solution Architect at Amazon Web Services*

*+1 (650) 922-9252*

### **Pawan Raja Maharjhan**

*Sr. Engineering Manager at Smart Ideas Pvt. Ltd.*

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### **Shankar Uprety**

*Chief Executive Officer at Smart Ideas Pvt. Ltd*

*shankaruprety@hamropatro.com*