

Bibek Gupta

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Software Engineer Intern | Building scalable software systems in Fintech, Saas, Agritech and Gen AI Areas

EDUCATION

Florida Polytechnic University

Lakeland, Florida

Master of Science in Computer Science

August 2025 to May 2027

- Courses: Machine Learning, Distributed System, Computer Networking, Algorithm Design and Algorithm
- Graduate Teaching Assistantship: Programming and Software Engineering Concepts.

TECHNICAL SKILLS

Programming languages: Typescript, Javascript, Python, SQL, Golang, Java, REST, GraphQL, Shell Script, HTML, CSS

Frameworks: React.js, Next.js, Nest.js, Strapi.js, Node.js, Django Rest, React Native, DynamoDB, PostgreSQL, Redis, Numpy, Pandas

Architecture & Security: Event Driven, CQRS, Microservices, Distributed System, Client Server, JWT, OAuth2, IAM, SOC2, PCI, PenTest

Cloud & DevOps: AWS (Lambda, SQS, SNS, EC2, API Gateway, DynamoDB, S3, CloudWatch, Cloudformation, CDK), CI/CD (GitHub Actions, CircleCI, CodeBuild), Serverless Framework, Docker, Kubernetes, Terraform, GCP, Digital Ocean, Git, Linux, Jira

Monitoring & Observability: Datadog, CloudWatch, Log Management, Alerting Systems

Testing: Mocha, Chai, Pytest, Jest, Postman

WORK EXPERIENCE

Tekkon Technology Pty Ltd

Perth, Australia

Fullstack Software Engineer

May 2022 to August 2025

- Re-architected [Bamboo's](#) CQRS based serverless microservices, enabled 500k+ events and 50K+ transactions processing daily.
- Built crypto analytics performance charts and event replay systems, ensuring zero data loss and real-time updates for active 100K+ users.
- Strengthened security via package audits and best practices, cutting vulnerabilities by 60% and achieving SOC2 compliance.
- Improved monitoring and observability with CloudWatch and Datadog, reducing MTTR by 40% and incident response time by 45%.
- Architected and built serverless event driven backend (Lambda, DynamoDB, API Gateway) for [IOUCash](#), enabling 50K+ transactions monthly.
- Tested service logic using TDD approached with Mocha/Sinon, achieving 90–95% test coverage and reducing bugs and hotfixes by 70%.
- Developed scalable backend and ML data pipelines for [Laconik](#), processed satellite insights across 120+ farms and 1.2M + hectares.
- Led integration of geospatial APIs (SentinelHub, John Deere SDK), improved ETL pipelines to process satellite and farm data at scale.
- Built scalable APIs, real-time notifications and dashboards for [Aleign](#), supporting 10K+ users and 20K+ daily operations.
- Worked on Fintech projects like [Bamboo](#), [IOUCash](#), SettleUp and Agritech projects like [Laconik](#) in backend and infrastructure heavy roles.

Core Software Integrated LLC

California, USA

Fullstack Software Engineer

Apr 2021 to May 2022

- Developed scalable GraphQL / REST APIs and real-time chat for [Kolyde](#), supporting 75K+ users and 15K+ connections.
- Built caregiver scheduling, secure auth (JWT, OAuth2), and Stripe payments integration for PCANow.
- Optimized backend queries and containerized services, improving API speed by 45% and deployment reliability by 20%.
- Integrated payment processing workflows, managed monthly Stripe transactions with higher success rate and complete webhook support.

Fiberknot Digital Pvt Ltd

Nepal

Fullstack Software Engineer

Apr 2020 to May 2021

- Developed real-time financial reporting for 1000+ businesses for FastAccount based on invoices from Lazada and Shopee.
- Engineered high-performance backend modules to support checkout flows and data operations, improved latency by 30%.
- Built secure, containerized architectures using Docker with CI/CD pipelines, reducing deployment time by 25%.
- Optimized internal modules, services, APIs and real-time inventory system for Farmingo and Pukkah.

Huawei Technology Co Ltd

Nepal

Software Engineer Apprenticeship

July 2021 to Nov 2021

- Completed 100% of 5G, AI, and Cloud Computing training via iLearningX, gaining hands-on exposure to emerging technologies.
- Developed "[Sathi App](#)" to automate glucose monitoring and alerts for Type I Diabetes, applying real-time notification systems.
- Contributed to the global Tech4Good project, integrating IoT and health tech principles in a social impact-focused solution.

Techlekh Services Pvt Ltd

Nepal

Fullstack Software Engineer Intern

Mar 2019 to May 2020

- Developed responsive listings and search features for [MeroGaadi](#), improving load speed by 45% for 21K+ users.
- Automated data ingestion pipelines, expanding vehicle model coverage by 40% and cutting backend server load by 30%.
- Optimized backend APIs and data pipelines, reducing query time by 40% and expanding vehicle data coverage.

ACADEMIC PROJECTS

- FinSight AI - Multimodal FinTech Fraud Detection & Reasoning Agent | Python, FastAPI, Langraph, LLM, AI
- Decentralized KYC Document System for Banks using Blockchain | Solidity, Ethereum, Hardhat, Metamask, React, Node.js
- Bamboo - Micro Investment Fintech Platform used 100k Users | AWS Serverless, Typescript, Python

 [Github](#)

 [Github](#)

[getbamboo.io](#)

ACTIVITIES AND CERTIFICATES

- Delivered session on AWS Serverless at AWS Community Day Nepal as speaker, simplifying serverless adoption for 100+ attendees.
- Led Scheduler based diabetes solution team in [Huawei's Seed for Future](#), presenting among global participants from 50+ countries.
- Represented Code for Change Nepal, mentoring peers and coordinating bootcamps to expand community tech impact.
- Organized tech events, software bootcamps for 40+ students, and guest lectures as BCA Club President, fostering peer learning culture.
- [AWS Certified Solution Architect](#) and [Serverless Framework Bootcamp](#) (2022–2023, Udemy), [GraphQL Developer Associate](#) (2022), [Software Engineering Bootcamp](#) (2020, Insight Workshop), and AI-focused certifications in [Machine Learning](#) and [Deep Learning](#) (2020, Coursera).