

# Bibek Shrestha

SOFTWARE ENGINEER

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## SKILLS

Languages **Python, JavaScript, TypeScript, Java, SQL, HTML/CSS**

Frameworks **React, Node.js, Express, Django, Spring Boot**

Tools **Git, Docker, AWS, MongoDB, PostgreSQL, Redis**

Concepts **RESTful APIs, Microservices, CI/CD, Agile/Scrum, Test-Driven Development**

## EDUCATION

2018-2022 **Bachelor of Science in Computer Science**

University of California, Berkeley

GPA: 3.8/4.0

Relevant Coursework: Data Structures, Algorithms, Database Systems, Software Engineering, Machine Learning, Computer Networks

## PROFESSIONAL EXPERIENCE

Jan 2023 - **Software Engineer, TechFlow Solutions**

- Present
- Developed and maintained microservices using Node.js and Express, reducing API response times by 40%
  - Implemented real-time data synchronization using WebSockets, improving user experience for 10,000+ daily active users
  - Collaborated with cross-functional teams to design and implement new features using React and TypeScript

Jun 2022 - **Junior Software Engineer, DataSphere Inc.**

- Dec 2022
- Built and optimized RESTful APIs using Django and PostgreSQL, handling 1M+ daily requests
  - Implemented automated testing suite achieving 90% code coverage
  - Participated in code reviews and mentored 2 intern developers

May 2021 - **Software Engineering Intern, CloudScale Technologies**

- Aug 2021
- Developed a dashboard for monitoring cloud resources using React and AWS CloudWatch
  - Implemented automated alert system reducing incident response time by 60%
  - Collaborated with senior engineers to optimize database queries, improving performance by 30%

## PROJECTS

2022 **AI-Powered Study Assistant**

- Built a full-stack web application using React, Python, and OpenAI API to help students study efficiently
- Implemented spaced repetition algorithms and ML-based question generation
- Deployed on AWS using Docker containers and CI/CD pipeline

2021 **Distributed Task Scheduler**

- Developed a distributed task scheduling system using Java and Spring Boot
- Implemented fault tolerance and load balancing across multiple nodes
- Used Redis for job queue management and real-time status updates