BIGYA BAJRACHARYA

Full Stack Developer | +1 469 294 1780 | ✉ bigya.js@gmail.com | 🌐 NY, USA (Open for relocation)
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PROFESSIONAL SUMMARY

Software Engineer with around **6 years** of experience leveraging **React, TypeScript, Node.js, Java, Python, Java, and AI-powered solutions** to build scalable, high-impact web applications. Proven ability to **optimize frontend performance, accelerate development cycles,** and **integrate cutting-edge AI models.** Passionate about delivering **intelligent, efficient, and user-friendly** applications that drive **business success,** I don't just build products—I make them **smarter, faster, and more user-focused.**

TECHNICAL SKILLS

Programming	JavaScript, TypeScript, Python, Java, C/C++
Frontend	React.js, Redux.js, Next.js, Tailwind CSS, HTML5/CSS3, Performance Optimization, Accessibility, UI/UX Optimization
Backend	Node.js, Express.js, Django, REST APIs, GraphQL, Microservices
Databases	PostgreSQL, MongoDB, MySQL, Redis, Firebase, NoSQL
Cloud & DevOps	AWS, Docker, Kubernetes, GitHub Actions, Jenkins, CI/CD Pipelines
Testing & Agile	Jest, Selenium, Enzyme, TDD, Agile, SDLC, JIRA, Confluence
AI & Data Science	NLP, LLMs, TensorFlow, PyTorch, sci-kit-learn, Pandas, NumPy
Data Visualization	Plotly, D3.js, Matplotlib, Tableau

EXPERIENCE

Fiserv   **Sept 2023 - Present**
Full-Stack Developer   **New York, USA**

- Designed and delivered scalable financial applications using AWS, React.js, Node.js, and TypeScript, ensuring seamless alignment with client needs and business goals.
- Led the full software development lifecycle, from requirements to deployment, including unit testing, API integration, and post-launch maintenance for reliable, high-performance systems.
- Built secure, high-performance RESTful APIs and microservices with Node.js/Express, implementing JWT authentication, Redis caching, and database optimizations for enhanced scalability.
- Developed responsive, accessible UIs with React.js, Redux, and TailwindCSS, optimizing frontend performance and delivering seamless user experiences.
- Leveraged AWS (S3, Lambda, DynamoDB) to build fault-tolerant applications and collaborated with data engineers to optimize Snowflake and PostgreSQL queries for faster financial insights.
- Automated CI/CD pipelines using Git, Jenkins, Docker, and Kubernetes, reducing release cycles by 30% and accelerating feature delivery for customer-facing applications.
- Drive Agile development and cross-functional collaboration, leading sprint planning and backlog refinement while swiftly resolving production issues via AWS CloudWatch to minimize client service disruptions.

Fusemachines Inc.   **Aug 2020 - Aug 2022**
Software Engineer, Full Stack   **New York, USA**

- Redesigned a legacy codebase into a scalable microservices architecture, reducing feature release cycles by 40% and enabling faster, more efficient deployments.
- Owned full SDLC execution for an enterprise education platform, eliminating development bottlenecks by 25% and ensuring on-time project delivery.
- Optimized GraphQL and RESTful APIs, reducing API response times by 30%, improving backend efficiency and user interaction speeds.
- Automated CI/CD workflows using Docker, GitHub Actions, and Jenkins, decreasing deployment overhead by

45%, and enabling rapid iteration in a competitive market.
o   Provided mentorship and technical leadership, supporting engineering team growth through onboarding, code reviews, and agile implementations.

Citytech   **Jun 2018 - Aug 2020**
Software Engineer, Full Stack   **Kathmandu, Nepal**
o   Developed critical components for a fintech platform managing $10M+ in monthly remittances, ensuring secure transactions and high system availability.
o   Enhanced UI performance by 30% through optimized state management and React/Redux improvements.
o   Built automated Jest/Enzyme testing framework, reducing production bugs by 40%, and increasing software reliability.
o   Collaborated across frontend, backend, and DevOps teams to drive system scalability and performance improvements.
o   Led end-to-end development of multiple projects, managing both product requirements and technical execution to align with business goals.
o   Acted as the primary point of contact for stakeholders, translating complex business needs into scalable technical solutions.

EDUCATION

East Tennessee State University   **Aug 2022 - May 2024**
Master's, Computer Science (AI & ML)   **GPA: 3.97**

St. Xavier's College, Tribhuvan University
Bachelor's, Computer Science

PROJECTS 🔗

AI-Driven Archival Platform | React, JavaScript, Python, Whisper, NLP

o   Led the frontend architecture and engineered NLP-driven search and content classification models to enhance retrieval efficiency, improving research accessibility by 200%.

College Admission & Academic Management System | React, Redux, Node.js, PostgreSQL, TypeScript, AWS
o   Developed a scalable education platform, serving 60,000+ users with 99% uptime, ensuring seamless enrollment and academic operations.
o   Led the frontend architecture, improving state management and performance, enhancing student and administrator experience.

AI-Enhanced Talent Platform | React, Node.js, TypeScript, GraphQL, AWS, D3.js
o   Developed several full-stack components for the platform, collaborating with cross-functional teams.
o   Improved API performance by 30% through GraphQL optimization and caching strategies.
o   Built interactive dashboards and candidate search functionalities, enhancing user experience and engagement.

CERTIFICATIONS 🔗

o   AWS Certified Cloud Practitioner – Associate (Ongoing)
o   Software Engineer Certificate – Hacker Rank (Oct 2024)
o   SQL (Advanced) Certificate – Hacker Rank (Sep 2024)
o   The Nuts and Bolts of Machine Learning – Google (May 2024)
o   Career Essentials in Sustainable Tech – Microsoft (Mar 2024)

REFERENCES AVAILABLE UPON REQUEST