

Gurmukh Singh

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Summary

Passionate software engineer with a strong background in developing scalable, secure applications using AWS cloud services, Next.js, FastAPI, and Node.js. Experienced in implementing OCPP protocols for EV charging infrastructure systems. Proficient in a variety of programming languages and frameworks, including HTML5, CSS, Python, TypeScript, JavaScript, Ruby on Rails, and React. Skilled in leveraging AWS services such as EC2, S3, Lambda, and RDS to build robust, resilient applications, with a focus on healthcare solutions and charging infrastructure.

Currently engaged as a software engineer on both health-focused and EV charging projects, where I develop HIPAA-compliant web applications and OCPP-compliant charging systems with Docker containerization. I bring proven expertise in implementing CI/CD pipelines with GitHub Actions, creating secure WebSocket connections for real-time data exchange, and streamlining deployment processes to ensure efficiency and reliability. Eager to join a dynamic team where I can apply my technical skills and contribute to impactful, data-driven projects in a collaborative environment.

Experience

Software Developer (Private Contractor)

OCPP

Feb 2025 - Present

- Develop and maintain EV charging management systems implementing OCPP 1.6 protocols, enabling seamless communication between charging stations and central systems.
- Design and implement backend services using FastAPI for real-time processing of charging station events, transactions, and remote commands.
- Create responsive monitoring dashboards with Next.js, providing operators with comprehensive visibility and control over EV charging networks.
- Implemented secure WebSocket connections and authentication systems compliant with OCPP security profiles for reliable station-to-server communication.



Software Developer (Contract)

Healthmemo

Sep 2024 - Feb 2025

- Develop secure, responsive web applications with Next.js, FastAPI, and Docker to support health-focused services and data management.
- Leverage AWS for scalable, HIPAA-compliant infrastructure, ensuring sensitive health data is managed safely and efficiently.
- Collaborate on API development using FastAPI, enabling rapid and secure data exchange across healthcare applications.
- Implement containerized solutions with Docker to streamline deployment and ensure consistency across environments.
- Prioritize security, reliability, and performance, creating a stable platform to support critical health services and data integrity.

Founder

Code Transmute

Dec 2023 - Present

- Collaborate with diverse skill sets and expertise to refine and enhance Code Transmute's features.
- Develop and implement advanced algorithms to ensure accurate code translation across various languages.
- Participate in self-directed code reviews, providing constructive feedback for continual improvement.
- Stay updated on emerging technologies to optimize Code Transmute's capabilities independently.
- Advocate for and implement best practices in software engineering for efficient and maintainable code.



Junior Software Engineer

Job Search Ninja

Feb 2023 - Aug 2024

- I'm currently engaged in an exciting project involving developing a Chrome extension using React.js.
- This extension serves as a powerful tool for job seekers, enhancing their overall job application experience using AI.
- Developing a Software-as-a-Service (SaaS) platform that simplifies the process of job application for users.
- The platform is designed to help users find the most suitable job opportunities. As part of my responsibilities, I am utilizing AI technology to match resumes with job descriptions, provide suggestions for improvements, and evaluate the chances of getting hired with that resume.

Web Developer

Freelance

Jan 2022 - Present

Full-stack web developer with experience in AWS, NextJS, Ruby on Rails, Python, React, REST API, JavaScript, CSS, and HTML.

- Developing responsive and user-friendly web applications using the aforementioned technologies.
- Collaborating with clients and stakeholders to understand their requirements and provide technical guidance.
- Creating and maintaining databases and APIs to ensure smooth data flow between the front-end and back-end of the application.
- Implementing testing strategies and performing quality assurance to ensure that the application functions properly and meets client expectations.

Machinist

CLAYMARK LIMITED

Jan 2017 - Oct 2021 (4 years 10 months)

- Ensuring that critical systems remain available and operational at all times.
- Monitored pipeline workflow performance to identify opportunities for process improvement and prevent production delays.
- Diagnosing and resolving issues with complex machinery and manufacturing systems.
- Implementing predictive and preventive maintenance practices to enhance plant efficiency and ensure the safety of operational staff.

Machinist

Shed Blinds

Sep 2015 - Jan 2017 (1 year 5 months)

- Guaranteeing the continuous availability and functionality of essential systems.
- Tracking pipeline workflow performance to pinpoint areas for process improvement and prevent production interruptions.
- Troubleshooting and resolving problems with intricate machinery and manufacturing systems.
- Incorporating predictive and preventive maintenance measures to optimize plant efficiency and safeguard the well-being of operational personnel.

Assistant Manager

Sleep City

Nov 2013 - Nov 2015 (2 years 1 month)

- Effective sales professionals possess a multifaceted skill set essential for success.
- They excel in customer service, meeting sales goals, and closing deals through adept negotiation.
- Territory management and prospecting skills enable them to identify and cultivate lucrative opportunities. With a deep understanding of products and unwavering self-confidence, they deliver compelling presentations that foster client relationships.
- Motivated by exceeding targets, they continuously refine their strategies to drive sales and achieve remarkable results.

Education



Le Wagon 2022 - 2023

Computer Software Engineering



Waiariki Institute of Technology Oct 2012 - Aug 2015

Applied technology, Manufacturing Engineering

Certifications



AWS Certified Developer Associate - [Amazon Web Services](#) (AWS)

Issued Mar 2024 - Expires Mar 2027

Skills

Amazon Web Services (AWS) • Next.js • React.js • JavaScript • Bootstrap • CSS • HTML • TypeScript • OpenAI • Frontend Development • Tailwind • Redux.js • Ruby on Rails • Python • Backend Development • Agile Methodologies • PostgreSQL • MySQL • DevOps • Docker • GraphQL • Code Review • TDD • Serverless Architecture • CI/CD • RESTful APIs • Cloud Computing • Full Stack Development • Ruby • Figma • Kanban • MongoDB • Firebase • S3 • Lambda • DynamoDB • RDS • EC2 • ECS • Elastic Beanstalk • Artificial Intelligence (AI) • OCPP