

HASSAN RAZA

Sunnyvale, CA 94085 · 669.832.7275
hassanraza632@gmail.com · www.linkedin.com/in/autodidactguy

FULL STACK DEVELOPER (JAVA | MEAN | MERN)

Experienced and results-oriented Full Stack Engineer with nearly 8 years of dedicated expertise in guiding intricate projects across the entire software development life cycle. I specialize in optimizing functionality, performance, and responsiveness, delivering exceptional outcomes. My portfolio includes crafting RESTful APIs, designing robust databases, data workflows and creating engaging frontend solutions for websites, ERP systems, and applications. My technical toolkit spans a wide range of technologies, including Java, JavaScript, TypeScript, React.js, Node.js, DynamoDB, MySQL, PostgreSQL, MongoDB, and AWS Cloud. I excel in harnessing these tools to drive innovation and ensure the success of diverse software initiatives. My commitment to continuous learning and growth is evident in my track record of consistently delivering high-quality software solutions.

Software Development Life Cycle · Software Design / Implementation · Testing / Troubleshooting
Frontend / Backend · Microservices · RESTful Web Services · Problem Solving · Team Leadership

Languages: Java

Web: JavaScript, TypeScript, jQuery, HTML5, CSS, Sass, Bootstrap, Material Design, PHP

Web Services: REST

Web and Application Servers: Apache, Apache Tomcat, Nginx

Frameworks: Spring / Spring Boot, Spring Security, JPA, Express.js, Nest.js, React (Library), Angular, Laravel, Node.js.

Databases: DynamoDB, MySQL, PostgreSQL, MS SQL, MongoDB

Design Patterns: Observable, Singleton, Decorator, Adapter, Abstract Factory, Template Method, Chain of Responsibility, Prototype.

SDLC: Agile / Scrum

Tools: Maven, Jira, Linear, Docker, Postman, VS Code, GitHub, JUnit, StarUML, IntelliJ IDEA

Cloud Tools: AWS Infrastructure (AWS CDK, Pipelines, Lambdas, EC2, SQS, SES, S3, DynamoDB, RDS, CloudWatch, API Gateways, and Kinesis data streams & firehose), Terraform

Platforms: AWS Cloud, GCP

PROFESSIONAL EXPERIENCE

Overflow App Inc, Mountain View, CA, United States · April 2024 - Present

Overflow makes generosity frictionless by helping nonprofits, churches, and corporations accept ACH/Credit/Debit, stock and crypto donations on Overflow donation platform.

Software Engineer: Led the end-to-end development of web-based applications that enabled nonprofits to manage donations efficiently, including cash (ACH/Credit/Debit), stock, and crypto contributions. Designed and implemented both front-end and back-end components, ensuring seamless user experiences. Overall, impacting over \$500 million in total processing volume within a calendar year.

- Led the design and execution of data workflows and lifecycle processes, managing the integration and migration of data from multiple sources, supporting over 3 million donations to date.
- Contributed to the development of a first-of-its-kind AI solution, designed to help nonprofits grow by optimizing donor engagement, automating fundraising insights, and scaling impact through intelligent recommendations.
- Worked closely with product managers, designers, and cross-functional teams to define feature sets, estimate timelines, and deliver high-quality software solutions. Actively participated in regular meetings and contributed to strategic planning to align development with organizational goals.

continued ...

- Spearheaded the integration of robust security measures to protect Personal Identifying Information (PII), ensuring compliance with data protection regulations. Developed secure APIs and implemented authentication and authorization mechanisms across multiple platforms.
- Designed and executed comprehensive testing strategies, including unit and functional tests, to ensure the reliability and performance of applications. Took full ownership of the QA process to minimize bugs and optimize user satisfaction.
- Built and maintained scalable infrastructure capable of handling the donation lifecycle for a large number of clients, including nonprofits and charities. Utilized modern cloud solutions and containerization technologies like Docker and AWS to enhance system reliability and performance.
- Regularly interacted with nonprofit partners and internal sales teams to gather feedback and understand custom requirements. Provided technical expertise and insights to guide product enhancements and user experience improvements.
- Build and maintain user-friendly, secure, and scalable donation and management experiences for nonprofits.
- Implement secure solutions for protecting sensitive user information and ensure compliance with privacy laws.
- Develop and maintain APIs that support the functionality of donation platforms.
- Provide technical leadership and mentorship within the team, promoting best practices in software development and deployment.

Technologies Used: JavaScript / TypeScript (Node.js, Nest.js, [React.js](#), Next.js), RESTful API, MongoDB, PostgreSQL, GitHub / GitLab, AWS Cloud (Pipelines, Lambdas, EC2, SQS, S3, RDS, CloudWatch, API Gateways), Redis, Terraform.

Scale AI, Dallas, TX, United States (Contracted via HireArt) · Feb 2024 - April 2024

Scale AI is an artificial intelligence company headquartered in San Francisco in the US State of California. The company provides labeled data used to train AI applications.

Software Engineer - Gen AI:

- Trained machine learning models to automate tasks and improve user interactions, assessing AI-generated outputs to refine algorithms and increase accuracy.
- Critically assess the functionality and efficiency of code generated by AI models like ChatGPT and Facebook Llama. Provide detailed, human-readable feedback and summaries to guide model improvements and ensure output quality. Focusing on their application to automate and optimize coding tasks. Evaluated model outputs for accuracy and relevancy, refining algorithms to enhance performance.
- Regularly engaged in competitive coding platforms to sharpen coding skills, tackling advanced problems in various programming languages including TypeScript and Java.
- Project Leadership and Communication: Led project meetings to discuss development progress, obstacles, and strategies, ensuring clear and effective communication across the development team.
- Actively pursued professional development opportunities in new programming languages and technologies, maintaining cutting-edge knowledge in the software development field.

Technologies Used: Java, JavaScript / TypeScript (Node.js, React.js), RESTful API, GitHub / GitLab, PHP.

Amazon, Seattle, WA, United States (Contracted via Insight Global) · May 2023 - December 2023

Amazon.com, Inc. is an American multinational technology company focusing on e-commerce, cloud computing, online advertising, digital streaming, and artificial intelligence.

Software Development Engineer II: Gained valuable experience and contributed significantly to the development of cutting-edge hiring solutions that impacted millions of applicants and future employees.

- Tackled complex challenges in developing scalable & efficient design and architecture solutions for the company's hiring platform that impacted 1.5 million hourly wage workers globally.
- Work spanned both the front-end and back-end, with a specialization in back-end development, where I played a crucial role in building the core infrastructure.

continued ...

- Demonstrated proficiency in Java, JavaScript, and TypeScript, using these languages to develop robust and maintainable code for various components of the hiring platform.
- Showcased my cloud expertise by working extensively with Amazon Web Services (AWS), although I also had experience with Azure and Google Cloud Platform (GCP). This knowledge allowed me to harness the power of cloud resources to enhance our platform's scalability and reliability.
- Contributed to the development of the hiring platform by leveraging my expertise in Cloud based SQL and NoSQL databases, including RDS, DynamoDB. This knowledge was instrumental in managing large datasets efficiently.
- Created and designed components and views for hiring platform using React.js, TypeScript, Redux.js.
- Initiated the development and maintained highly available, highly scalable RESTful APIs within a microservices architecture using Java, Node.js.
- Worked on data stream transformation lambdas using Node.js
- Work with AWS infrastructure components such as Pipelines, Lambdas, EC2, SQS, SES, S3, DynamoDB, RDS, CloudWatch, API Gateways, and Kinesis data streams & firehose. My familiarity with these services enabled me to design and implement robust and efficient backend systems.
- Actively participated in infrastructure-as-code (IaC) initiatives, using tools like the AWS CDK to automate the provisioning of resources. All CI/CD workflows were also part of CDK packages of each service.
- Deployed features flawlessly using CI/CD tools, ensuring a 99.9% availability rate for new functionalities in targeted regions (US, MX, JP, UK, IN).
- Delivered high-quality code, conducting thorough testing and code reviews to maintain codebase integrity. Test driven development to ensure code quality meets set code standards e.g: code coverage.
- Played a crucial role in documenting requirements, designs, and technical documentation, keeping our development process well-documented and organized.
- Dedicated to creating a seamless, customer-focused hiring solution that addressed the unique needs and complexities of diverse workflows and country-specific regulations.

Technologies Used: *Java, JavaScript / TypeScript (Node.js, React.js), RESTful API, DynamoDB, MySQL, GitHub / GitLab, AWS Cloud (Pipelines, Lambdas, EC2, SQS, SES, S3, DynamoDB, RDS, CloudWatch, API Gateways, & Kinesis data streams & firehose)*

THINKGENIUX PRIVATE LIMITED, Punjab, Pakistan · October 2018 - July 2022

International software consultancy company specialized in ERP systems, ecommerce marketplaces, ride sharing applications etc.

Full Stack Developer: Led the design and development of innovative software solutions through active collaboration with development teams and project managers.

- Designed, developed & maintained scalable and robust web applications, ERP systems, ecommerce apps, RESTful APIs for a diverse set of use cases like ride sharing apps, systems integrations using Java/Spring Boot, Node.js/Express.js, PHP/Laravel.
- Designed & implemented secure authentication and authorization workflows using Spring Security & other relevant tools and technologies.
- Designed, developed, and deployed microservices-based applications on AWS Cloud.
- Designed and implemented various cloud architectures such as SaaS using AWS services like Lambda, ec2, API Gateway, S3, RDS, DynamoDB, Route53 etc. Ensuring that the applications are highly available, secure, and scalable.
- Used MySQL, PostgreSQL, MongoDB, Firebase, and DynamoDB databases to meet project-specific requirements. Used AWS RDS to manage and scale relational databases.
- Implemented CI/CD pipelines using GitHub Actions to automate testing, building, and deployment processes.
- Integrated 3rd-party APIs including Google Analytics, Google Maps, Google Login, Google Cloud APIs, YouTube, AWS Rekognition, Facebook Analytics, Facebook & Instagram Graph API, Stripe, PayPal, Twilio, SendGrid.

continued ...

- Developed and implemented user-friendly, responsive, and high-performance web apps using Frontend frameworks such as Angular, React, Bootstrap, Material Design etc.
- Wrote unit and integration tests using various testing technologies such as Junit and Mockito etc.
- Performed software tests and optimized complex queries to maximize responsiveness, performance, and application efficiency.
- Engaged with clients to gather feedback on existing features, resolving issues, and implementing updates, resulted in better improvement in overall customer satisfaction.
- Prepared and maintained technical documentation.
- Enhanced products by working with data scientists and analysts.
- Led a team of developers, providing technical guidance, and ensuring that coding standards and best practices are followed.

Technologies Used: Java (Spring / Spring Boot), JavaScript / TypeScript (Node.js / Express.js, Angular / React), PHP (Laravel, Custom MVC), RESTful API, MySQL, PostgreSQL, MongoDB, MS SQL, JPA, Hibernate, PhpMyAdmin, pgAdmin, Visual Studio Code, IntelliJ IDEA, cPanel/WHM, GitHub / GitLab, AWS / GCP / Azure, Linux (Ubuntu / CentOS), Windows, NGINX, Tomcat, Apache, SQLite, jQuery, HTML5, CSS, Sass, Bootstrap, Material Design.

METOLOGIX PRIVATE LIMITED, Punjab, Pakistan · August 2016 - September 2018

Nationwide innovative solutions provider of Security and Information Technology, Electronics & Automation since 2007 with an objective of providing incomparable services.

Web Application Developer: Work with software team to develop websites, Designing UI/UX, Maintaining websites and systems, Software testing, Website optimization.

- Developed and maintained company websites using PHP, Wordpress, HTML, CSS & Javascript.
- Part of the company internal HR platform management team. Used PHP / Laravel, Javascript, HTML, MySQL.
- Deployed websites, company wide services to AWS Cloud.

Technologies Used: JavaScript · MySQL · GitHub · Amazon Web Services (AWS) · PHP · Laravel · Git · Google Cloud Platform (GCP) · Web Development · Team Leadership · Web Designing · WordPress

PERSONAL PROJECTS

Custom Surveys – Typeform / SaaS, 2022: Built system for users to create custom surveys with flexible options. Build using Java (Spring Boot / Spring Security), JavaScript, TypeScript (Angular), PostgreSQL, IntelliJ IDEA, pgAdmin, GitHub, AWS Ec2, Ubuntu, Bootstrap.

Technical Complaint Management System, 2021: Designed system for companies to manage customer complaints and provide customer support. Build using Java (Spring Boot / Spring Security), JavaScript, TypeScript (Angular), PostgreSQL, IntelliJ IDEA, pgAdmin, GitHub, AWS Ec2, Ubuntu, Bootstrap.

TGX ERP System – SaaS, 2020: Developed ERP system with features for CRM, Inventory, Production, Sales, Purchase, Accounts, Vendor, HR, eCommerce, Essentials, and Reports. Enabled subscription-based functionality for small and medium-sized enterprises with an economical Cloud-based ERP system. Build using PHP (Laravel), JavaScript, jQuery, Bootstrap, HTML, CSS, Sass, MySQL, Visual Studio Code, phpMyAdmin, GitHub, AWS Ec2, and CentOS.

Chat apt, 2019: A chat mobile application with an AI based chat assistant. Build using XMPP (Openfire, Smack), Java, Python, MySQL, phpMyAdmin, GitHub, AWS Ec2, Google Dialog Flow, and Ubuntu.

Photocalypse, 2019: Created a website for photographers to create events and upload photos. Built using PHP (Laravel), JavaScript, jQuery, Bootstrap, HTML, CSS, Sass, MySQL, Visual Studio Code, phpMyAdmin, GitHub, AWS Ec2, AWS Rekognition, and CentOS.

continued ...

EDUCATION

Master of Science in Computer Science

(2022 - 2024)

Maharishi International University, Fairfield, Iowa

*Key Courses: Software Architecture, Enterprise Architecture,
Web Application Architectures and Frameworks, Modern Web Applications,
Web Programming, Algorithms, Mobile Device Programming*

Bachelor of Science in Computer Science

(2015 - 2019)

The University of Lahore, Punjab, Pakistan