

# Hasan Afzal

## Full Stack Developer (ROR, MERN, DevOps)

With approximately 3 years in the software engineering realm, I've traversed the full spectrum of the development cycle, consistently delivering robust web applications. My expertise is anchored in a blend of cutting-edge technologies, from crafting custom payment gateways to optimizing expansive databases. As a proven leader, I've successfully steered dynamic teams, fostering collaboration and ensuring milestones were met. My problem-solving aptitude, coupled with an inherent ability to swiftly assimilate new skills or technologies, positions me as a valuable asset in any forward-thinking team.

### WORK EXPERIENCE

#### Senior Software Engineer SELF-EMPLOYED

- February 2023 – Present
- Directly collaborated with clients on software solution consultations and delivery.
  - Managed applications across AWS, DigitalOcean, and Heroku, emphasizing scalability and fault tolerance.
  - Handled databases like PostgreSQL and MongoDB, optimized using Amazon RDS.
  - Used Docker for consistent app environments; developed web apps with React.js and Next.js for optimized UX.
  - Built server-side solutions with Node.js and Express.js; employed Ruby on Rails for efficient web development.
  - Managed secure VPC environments; enhanced global content delivery with Amazon CloudFront.
  - Utilized Amazon Textract for automated data extraction; ensured secure data storage with tailored Amazon S3 policies.
  - Optimized Nginx configurations as a reverse proxy, managing web traffic for improved site performance and security.
  - Integrated diverse payment gateways, enhancing transaction capabilities for various platforms.
  - Prioritized high-end security, from data protection to robust intrusion defense systems.

#### Senior Software Engineer 3SSOULTIONS

- July 2022 – February 2023
- Led a team of 5, ensuring collaboration and timely project delivery.
  - Worked with three clients, seamlessly integrating new requirements.
  - Enhanced application performance by optimizing code and database queries.
  - Used background jobs for tasks like complex report generation.
  - Employed Elasticsearch for real-time, precise database searches.
  - Set up staging, production, and QA servers, integrating GitHub CI/CD for automated deployments.
  - Used Docker for consistent environment setups.
  - Managed backend projects using RESTful APIs; developed intranet apps with NodeJS and integrated triggers for PostgreSQL, MongoDB, and Neo4j.
  - Utilized Jest and React Testing Library for comprehensive app testing.

### CONTACT

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### SKILLS

#### Tools and Frameworks:

Frontend  
Javascript  
Typescript  
React JS  
NEXT JS  
Jquery

Backend  
Node JS  
Express  
Ruby on Rails

Databases  
PostgreSQL  
MongoDB  
Mysql  
Neo4j

DevOps  
Docker  
EC2  
S3  
EBS  
Route 53  
RDS  
Nginx  
CloudFront  
Textract  
Lambda  
Heroku  
Digital Ocean

ORM  
Prisma  
Mongoose  
ActiveGraph  
ActiveRecord

Sockets  
Socket.io  
ActionCable

- Established a boilerplate for the company's future Node.js and React projects.
- Refactored Rails codebases for improved maintainability.
- Created a custom validation library for Node.js, enhancing development speed.

**Associate Software Engineer**  
**SOUTHVILLE**

September 2021 - July 2022

- Promoted to Software Engineer, leading in full-stack development and key project milestones.
- Managed intern onboarding, conducting interviews, and offering guidance.
- Liaised with clients to tailor tech solutions to business needs.
- Led the creation of full-stack web apps, focusing on impeccable UI/UX.
- Partnered with Business Analysts, automated weekly data exports via Node and Prisma.
- Delivered top-tier web apps using Ruby on Rails, maintaining industry standards.
- Integrated payment systems like Stripe, PayPal, and Venmo.
- Established a solid Continuous Integration process for Stage/QA server deployments.
- Used Active Record for database programming and data integrity.
- Crafted reliable APIs with Node.js, backed by extensive unit testing.
- Deployed apps on platforms like Heroku and Amazon EC2, with Nginx and Capistrano for smooth delivery.
- Utilized Elasticsearch for superior search functions and UX.
- Optimized database queries, reducing load times for enhanced application performance.

**Full Stack Engineer**  
**TECHCREATIX**

January 2021 – September 2021

- Operated as an Associate Software Engineer, focusing on full-stack development across varied project stages.
- Utilized frameworks like React.js and Ruby on Rails.
- Managed comprehensive web app development, from database design to EC2 deployment.
- Transitioned a WordPress app to React.js and Ruby on Rails, underscoring flexibility and expertise.
- Refined WordPress database structures for optimal performance in the new framework.
- Led frontend development with ReactJS, emphasizing enhanced UI/UX via Material UI.
- Crafted efficient APIs using Ruby on Rails, with a focus on code reusability; rigorously tested with RSpec.
- Emphasized best practices, producing reusable and performant code.
- Integrated Stripe for advanced financial transactions.
- Skillfully incorporated third-party APIs, indicating a deep grasp of various platforms.
- Boosted real-time interactions using tools like socket.io and actionable.

**Payment Gateway**  
Stripe  
Paypal  
Gumroad  
Plaid  
Paddle  
Venmo

**Testing**  
Jest  
React Testing Library  
Cypress  
Rspec

**Styling Libraries/ Frameworks:**  
Tailwind CSS  
Material UI  
BootStrap

**Project Management Tools:**  
Jira  
ClickUp  
Trello  
GitHub  
GitLab  
Bitbucket

## EDUCATION

Comsats University Islamabad,  
Lahore  
Bachelor of Software  
Engineering

Wah cent Islamabad, PK – 2020

## PROJECTS

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### QuickCard

QuickCard synergizes with over 100 major shipping carriers, like FedEx and DHL, streamlining label creation. With powerful API integrations, the platform enables merchants to facilitate real-time payments, handle ACH, issue E-checks and invoices with ease, and distribute payments via diverse channels, including Push-to-Card. Additionally, the system bolsters protection against cardholder fraud minimizes chargebacks, and enhances chargeback resolution. My contributions encompassed a significant speed enhancement by optimizing code, refining queries, and introducing new features.

**Technologies:** Elasticsearch, Heroku, Amazon Relational Database Service (RDS), Amazon CloudFront, Payment Gateways, Amazon EC2, Capistrano, PostgreSQL, Cypress, React.js, Ruby on Rails, Rspec

**Link:** <https://quickcard.me/>

### UpcomingEvents

Played a crucial role in developing and refining an all-encompassing event management platform, aimed at simplifying the event hosting process globally. I was pivotal in optimizing database queries to enhance performance. Additionally, I introduced features such as third-party website integrations, enabling event postings on external platforms while ensuring seamless event management across both our site and third-party sites. I diligently addressed and rectified numerous bugs, enhancing stability and user experience. Users can publish events, sell tickets via diverse payment gateways like Stripe and PayPal, and benefit from features such as prompt refunds and event notifications. The platform also boasts an intuitive admin portal for comprehensive event organization and ticket management.

**Technologies:** Payment Gateways, MySQL, Ruby on Rails, Jquery, Rspec

**Link:** <https://www.upcomingevents.com/>

### Piqosity

I led a team of 5 in developing and enhancing Piqosity. It's engaged in refining and expanding an integrated Learning Management and Curriculum Delivery Platform. This platform offers specialized test prep for subjects such as Math, English, and exams like ACT, SAT, and ISEE. It boosts student outcomes through a virtual tutor, intuitive lessons, and adaptive practices. My core contributions involved dramatically improving platform speed via code optimization, query refinement, and the rollout of new features. A notable achievement was the crafting of dedicated dashboards for teachers and students.

**Technologies :** Elasticsearch, Docker, Neo4j, Payment Gateways, Amazon EC2, Nginx, Ruby on Rails, React

**Link:** <https://www.piqosity.com/>

## Fazier

Leading a team of 3, and Architected from the ground up, I meticulously designed a scalable database envisioning substantial future user growth. Employing best coding practices, I incorporated SSR and SSG for enhanced SEO. Users can launch products, akin to ProductHunt, and create company profiles reminiscent of LinkedIn. They can upvote launches, and follow topics, companies, or peers. An admin dashboard facilitates featuring launches and user management. The platform also showcases 'TopTools', ads, offers comprehensive analytics for an improved user experience, and provides recommendations based on user interactions, blending diverse functionalities to create a multifaceted social media experience.

**Technologies:** Amazon Relational Database Service (RDS), Next.js, Amazon VPC, Amazon CloudFront, MongoDB, Amazon S3, Express.js, Amazon EC2, Nginx, Node.js, Prisma ORM, React.js

**Link:** <https://fazier.com/>

## A1CovidTesting

As a core team member on this UK-focused health-tech platform, I led the transition from WordPress to MERN for efficient COVID-19 test kit sales. Integrated official UK lab APIs for instant results and Stripe for payments. Managed data migration and introduced an admin dashboard for kit/result management. Built on MERN stack.

**Technologies:** Express.js, Node.js, PostgreSQL, React.js, Jest, React Testing Library

**Link:** <https://www.a1covidtesting.co.uk/>

## Etyme

Engaged as a key developer for an advanced HR management tool streamlining recruitment processes. Facilitated companies to register and outsource employees with individualized profiles. Spearheaded the intricate chat feature enabling HRs to engage, shortlist, and manage recruitment stages, integrated with real-time online/offline user status via Action Cable and Livestream. Leveraged the Bullet Train template to innovate features and rectify bugs per client specifications.

**Technologies:** Socket Programming, Amazon EC2, Capistrano, PostgreSQL, jQuery, Ruby on Rails, RSpec

**Link:** <https://app.etyme.com/>

## TheKiteProgram

Leading a team of 3, I spearheaded the development of "TheKiteProgram" from its inception to deployment on EC2. Inspired by Blogger.com but tailored for mobile users, this application enables users to pen down 'kites'—articles for the public to read. While the backend and the admin panel were crafted using Ruby on Rails, the mobile application was developed in Flutter. Users can seamlessly create content, cater to their unique audiences, and gain insights through a detailed admin panel. Additionally, I managed the meticulous task of data migration from the previous database, ensuring no information loss.

**Technologies:** MongoDB, Express.js, Amazon EC2, Nginx, Node.js, React.js, Jest, React Testing Library

**Link:** <https://www.thekiteprogram.com/>

## TheCondoCanopy

Solely developed from scratch, "TheCondoCanopy" caters to enterprise users, offering an advanced document management solution. Users can swiftly upload documents, in varied formats, up to 5GB in size. Harnessing the power of Amazon S3 for storage, the platform ensures rapid upload speeds. Notably, I implemented Textract to accurately extract and structure data from documents. This information, once processed, is then stored in the database. Furthermore, to guarantee instantaneous and seamless document searches, I integrated ElasticSearch, ensuring users can access their data in real time without any delays.

**Technologies:** Elasticsearch, Docker, Amazon Textract, Amazon S3, Socket Programming, Amazon EC2, Nginx, PostgreSQL, Ruby on Rails

**Link:** <https://thecondocanopy.com/>