Aiman Siddiqui

Aiman Siddiqui | Saarbrucken, Germany
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Full Stack Software Engineer with 3+ years of experience developing and optimizing scalable web and mobile applications using React, Angular, TypeScript, and Node.js. Skilled in building high-performance frontend architectures, integrating RESTful APIs, and improving legacy codebases for maintainability and scalability. Strong foundation in cloud-native development (AWS, GCP), CI/CD pipelines, and Agile methodologies. Adept at collaborating with cross-functional teams to deliver user-centric solutions and enhance system performance. Passionate about leveraging modern frameworks and AI-driven technologies to create impactful, reliable, and efficient software systems.

Technical Skills

- **Frontend**: React, React Native, JavaScript, TypeScript, HTML, CSS.
- **Backend**: Node.js, NestJS, FastAPI, REST APIs, GraphQL, RabbitMQ, AWS Lambdas, Google Cloud Functions, WebSockets, Authentication & Security Strategies (OAuth, JWT), Microservices Architecture.
- **Database Knowledge**: SQL, MongoDB, PostgreSQL, Redis.
- **Version Control & Agile:** GitLab, Bitbucket, Agile Development, Debugging, Jupyter Notebook.
- **Cloud Technologies and Deployments (DevOps):** AWS, Google Cloud, Kubernetes, Serverless Architecture, CI/CD Pipelines, Jenkins, Github Actions, Docker, integration testing, jest, Cloud Engineering.
- AI Models, Deep Learning, Generative Adversarial Networks (GAN), Computer Vision, Feature Extraction, OpenCV, TensorFlow, Pytorch, Keras, Scikit-learn, NumPy, Pandas, Python.

Work Experience

WorkCentrix Gmbh – Saarbrucken, Germany

Werkstudent Full Stack Engineer – *03/2025 - 06/2025*

- Designed and developed scalable web applications using PHP, MySQL, and Angular, integrating cloud services and streamlining document workflows to enhance user experience and operational efficiency by 10%.
- Built and implemented a comprehensive library of reusable UI components in Angular, ensuring code consistency and accelerating feature development for Alcom, leading to a 30% reduction in front-end development time.

Folio3 Pvt Ltd – Karachi, Pakistan

Senior Software Engineer – *01/2023 - 10/2024*

- Authored comprehensive technical documentation, including API guides and troubleshooting manuals, which decreased developer onboarding time by 40% and reduced code-related help-desk tickets by 15 tickets per week.
- Developed React Native and React.js applications for Thrive having a leadership role, with deployment over Jenkins, optimizing performance with React Query and WatermelonDB, achieving 10,000+ active users and a 25% performance boost.
- Architected and deployed scalable backend systems for Genopalate using NodeJS (NestJS) and AWS services (Lambda, Cognito, S3), enhancing scalability and reducing latency by 30%.
- Delivered data-driven solutions for Genopalate with automated pipelined deployment via Github Actions and Docker and advanced, scalable features for Alcom, applied modern development principles to boost user engagement by 20%.
- Deployed AI-driven (artificial intelligence) recommendation systems and LLM chatbots, increasing user engagement by 25% and reducing user support response times by 40%.

Software Engineer - *07/2021 -12/2022*
- Developed and maintained full-stack applications using React Native (Moodology), Redux, Context API , and continuous integrations including third party (Shopify, Firebase), delivering 10+ apps with 50,000+ active users and contributing over 100 commits weekly in collaborative and friendly team environments.
- Engineered application services for Clomr, leveraging NodeJS for APIs, Google Cloud Functions, NoSQL databases, Docker Containers and asynchronous programming, achieving a 30% efficiency improvement
- Spearheaded AI model development with Mask R-CNN for advanced object tracking and image stitching in Hancock, reducing processing time by 40%.
- Enhanced customer engagement by integrating AI-driven analytics into Genopalate, improving food recommendations and boosting retention by 20%.

Bytecorp – Karachi, Pakistan

Machine Learning Intern – *06/2020 - 07/2020*
- Optimized Convolutional Neural Networks (CNNs) in python using tensorflow by reducing computational overhead, achieving a 25% reduction in inference time.
- Boosted model accuracy by 10–20% on limited datasets by applying Transfer Learning techniques, demonstrating expertise in adapting pre-trained models for performance in resource-constrained environments.

Education

Masters of Science in Computer Science
Saarland University | Germany *10/2024 – Ongoing*

Bachelors of Science in Computer Science
National University of Computer and Emerging Sciences| Karachi, Pakistan *10/07/2017 – 13/07/2021*
- Graduated with a **CGPA of 3.91**, awarded the **Bronze Medal** for exceptional academic performance.

Language Skills

- English (C1)
- German (A1)

Publications

Attention-based COVID-19 Detection using Generative Adversarial Networks (GANs)
https://ieeexplore.ieee.org/document/9676189, International Conference on Computing & Information Science, 2021

Certifications

Deep Learning Specialization – Deeplearing.AI
https://coursera.org/verify/specialization/LDA6BYDPYJAS