

Arsal Azam

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EDUCATION

Friedrich-Alexander University Erlangen-Nuremberg (FAU) <i>Master in Artificial Intelligence</i>	October 2023 - November 2025
National University of Computer and Emerging Sciences (NUCES FAST) <i>Bachelor's, Computer Engineering</i>	August 2016 - June 2020 <i>German GPA: 1.4</i>

PROFESSIONAL EXPERIENCE

Valeo Siemens <i>Software Engineer</i>	Erlangen, Germany <i>August 2023 – Present</i>
<ul style="list-style-type: none">Develop and maintain Java-based applications to synchronize signal data across multiple software platforms, ensuring data integrity.Utilize Polarion and ADD tools to gather and manage signal data, enhancing data workflows and operational efficiency.Wrote and maintained unit and integration tests in Java to validate backend functionalities, ensuring high code quality and performance.Utilized Maven for project management and build automation, streamlining the build process and managing dependencies efficiently.Successfully implemented a synchronization solution that improved data accuracy across platforms, reducing data discrepancies by 30%.Enhanced data retrieval speed by optimizing Java code, leading to a 20% reduction in processing time.Participated in the migration of legacy systems to updated platforms, ensuring minimal downtime and improved performance.	

Educative <i>Software Engineer</i>	Washington, USA <i>February 2021 - October 2022</i>
<ul style="list-style-type: none">Developed front-end components using React and TypeScript to enhance the user interface and improve the user experience of the product.Implemented Redis as an in-memory data structure store, optimizing data retrieval and storage efficiency.Utilized Python for backend logic and data processing in interactive coding environments.Automated tests using the Selenium framework to simulate user interactions with web applications, ensuring robust testing.Dockerized the Django backend to maintain a consistent development environment, facilitating smoother deployments and development.Worked extensively with Recommender Systems, Data Accumulation, Data Cleaning, and Web Automation, implementing collaborative filtering algorithms to improve data handling and system automation.Designed and architected the backend systems using Django, ensuring scalable and maintainable software solutions.Developed and deployed Azure Functions for serverless applications, integrating them with Azure Logic Apps for workflow automation.Designed and implemented a highly available and scalable web application using EC2, S3, RDS, and Elastic Load Balancing.Utilized Agile methodologies, including Scrum, to deliver working software increments in iterative sprints.Optimized application performance for cloud computing by implementing caching strategiesImproved data handling and system automation processes, leading to more accurate and efficient data processing and analysis.	

I2C <i>Software Engineer</i>	Lahore, Pakistan <i>July 2020 – February 2021</i>
<ul style="list-style-type: none">Developed robust and scalable software applications using Java and Spring Boot, adhering to best practices and coding standards.Implemented RESTful APIs and utilized Spring Boot's features for building microservices, facilitating seamless integration and communication between different components.Utilized Spring Data JPA to interact with databases, ensuring efficient data access and manipulation within the applications.Implemented unit tests and participated in code reviews to maintain code quality, identify potential issues, and ensure overall software reliability.Actively contributed to continuous integration and continuous deployment (CI/CD) processes, utilizing tools such as Jenkins or GitLab CI/CD to automate build, test, and deployment pipelines.Developed and deployed a suite of microservices using Spring Boot, improving the modularity and scalability of the application architecture.Streamlined database interactions using Spring Data JPA, resulting in more efficient data access and manipulation.Improved the development workflow by actively contributing to CI/CD processes, leading to faster and more reliable deployments.	

PROJECTS

AI in Legal Linguistics: Knowledge Representation and Reasoning <i>Research Assistant and Software Engineer</i>	Erlangen, Germany <i>August 2024 - March 2025</i>
<ul style="list-style-type: none">Applied Legal Linguistic Templates (LLTs) to formalize legal texts for automated reasoning.Utilized LegAi editor to annotate legal documents, creating legal knowledge bases (e.g., for GDPR).Contributed to reverse translation methodology for validating legal formalizations.Analyzed legal texts to extract vocabulary and LLTs for AI processing.Gained experience in legal informatics principles, including legal knowledge representation and DSL development.	

SKILLS

Skills: Next.js, Node.js, AWS, Babel, Bash, Bootstrap, Django, Docker, Google Cloud Platform, Java, Springboot, JavaScript, jQuery, Git, HTML/CSS, Kotlin, PowerShell, MongoDB, MySQL, Python NLTK, Postgres, Postman, React.js, Python, UI/UX Design, Vue.js, Web Development, NoSQL, FastAPI, Firebase, Netlify, Vercel, Express.js, Redux.js, BigQuery, Agile, Communications, Computer Networking, Stripe, Socket.io, Software Testing, TypeScript, Strapi, SQL, Websockets, Tailwind CSS, Vite, C, C++, C#, Microsoft SQL Server, ASP.NET MVC, Assembly