

Arsalan Bin Najeeb

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EXPERIENCE

Graduate Research Assistant | GWU

Jan 2024 - May 2025

- Architected novel LLVM passes to track unsafe **Rust** code execution paths and created benchmarking programs for Hyper and Tonic (gRPC/Protobuf), enabling new Rust compiler safety analysis capabilities
- Led Machine Learning project in AI alignment using RLAIIF, finetuning telemetry data collected in Weights and Biases
- Decreased manual data analysis by 50% by building custom LLM pipelines with Langchain for tool orchestration and Ollama for local model deployment
- Engineered model interpretability techniques using Hugging Face for model fine-tuning and attention visualization for transformer architecture, enhancing decision-making transparency

Software Engineer | Incentifind

Oct 2024 - May 2025

- Increased platform revenue by 21% by developing 'Pro' subscription APIs, using Laravel and **GraphQL** to address customer demand for advanced features
- Accelerated frontend development by building responsive React/Tailwind components from Figma designs, establishing new user flows and navigation structures
- Reduced development feedback loop by 50% by implementing Sentry, eliminating manual bug reporting dependencies
- Improved sales team effectiveness as measured by their ability to self serve metrics by deploying Metabase on AWS

Software Engineer | TWST Events (Previously CSS)

May 2021 - Aug 2023

- Led full-stack development and maintenance of 2 **Java** SaaS web applications serving 10,000+ users, using Agile development methodologies to deliver new features
- Orchestrated UI overhaul across Vue, Next.js, and React applications implementing OWASP security and W3C accessibility standards, strengthening platform security compliance
- Designed and deployed **RESTful** API across microservices architecture, using Micronauts(JVM), Grails GORM; implemented realtime webhooks and refactored code with reusable modules to boost feature delivery
- Managed MySQL schema migrations across multi-tenant Kubernetes environments using Flyway
- Enhanced system scalability and uptime by administrating AWS cloud infrastructure (ECS, EC2), VPC and security groups, using autoscaling policies, k9s and IaC tools
- Reduced system downtime by 40% by using Docker, CI/CD pipelines with GitHub Actions to resolve production outages

Full Stack Engineer | Stream Engine

Nov 2020 - May 2021

- Improved user acquisition by 30% by designing a multi-tenant SaaS product in **Django** and **PostgreSQL**
- Developed React frontend with Bootstrap and RESTful APIs, increasing user satisfaction scores

TECHNICAL SKILLS

- **Programming** Java, Python, JavaScript, TypeScript, HTML5, CSS, Rust, SQL, Go, PHP, C, \LaTeX
- **Frameworks** React, Vue, Next.js, Svelte, React Native, Django, Laravel
- **AI / ML** PyTorch, TensorFlow, Ollama, Hugging Face, Model Fine-tuning
- **Cloud and Devops** AWS (ECS, EC2), GCP, Docker, Kubernetes, CI/CD, Git, Apache, Linux
- **Databases** MySQL, PostgreSQL, NoSQL

EDUCATION

George Washington University – M.S. Computer Science | GPA 3.7

May 2025

Knox College – B.S. Computer Science and Bus and Management | GPA 3.6 *Cum Laude*

Jun 2020

LEADERSHIP ACTIVITIES

SEAS Ambassador | GWU

Oct 2024 - May 2025

- Collaborating with a team of 6 ambassadors to overcome academic and social difficulties for students in the School of Engineering and Applied Sciences

Awards, Publications

- 1st place Student Research, Consortium of Computing Science Colleges MW18, Philip Haring and John Houston Award; Promoting International Understanding, Deans Honor List, Mortar Board Member, Sigma Xi Nominee, M. M. McGill et al. Exploring the enacted computing curriculum in k-12 schools. Association for Computing Machinery, 2020.