Arsalan Bin Najeeb

773-999-4346 | arsalannajeeb0@gmail.com | arsalanwyne | arsalan.app | github.com/anw10

EXPERIENCE

Graduate Research Assistant | GWU — Jan 2024 - Present

- 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 RLAIF, finetuning telemetry data collected in Weights and Biases
- Decreased manual data analysis by 50% by building custom LLM pipelines using 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

- Architected subscription platform infrastructure driving 21% revenue growth by designing 'Pro' subscription APIs, using Laravel and **GraphQL**, serving 700+ enterprise customers.
- Led cross-functional product development, collaborating with product and UI design teams to establish new user acquisition funnels, implementing responsive React/Tailwind components from Figma specifications
- Established monitoring and analytical infrastructure by implementing Sentry and Metabase on AWS reducing the development feedback loop by 50% and enabling self service metrics for the sales team

Software Engineer | TWST Events (Previously CSS) — May 2021 - Aug 2023

- Developed and maintained microservices platform serving 10,000+ users across 2 **Java** SaaS web applications using Micronauts, leading full-stack development and using Agile development methodologies to deliver new features
- Led system modernization initiative orchestrating UI overhaul across Vue, Next.js, and React applications implementing OWASP security and W3C accessibility standards, strengthening platform security compliance
- Designed distributed architecture implementing **RESTful** APIs across microservices, using Grails GORM and RabbitMQ; implemented realtime webhooks and refactored code with reusable modules to boost feature delivery
- Managed production infrastructure and database operations administering multi-tenant Kubernetes environments with MySQL schema migrations using Flyway, maintained uptime across AWS cloud infrastructure (ECS, EC2, VPC)
- Established DevOps practices managing Docker containerization and CI/CD pipelines with Github Actions and k9s, reducing system downtime by 40% enabling rapid production cycles
- Mentored junior developers on code review standards and development patterns, contributing to team knowledge transfer

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

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, Langchain, 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 — May 2025
Knox College – B.S. Computer Science and Bus and Management | *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.