

# Arsalan Bin Najeeb

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## EDUCATION

### GEORGE WASHINGTON UNIVERSITY

#### M.S. Computer Science

GPA 3.7 | May 2025

### KNOX COLLEGE

#### B.S. Computer Science

Business and Management  
*Cum Laude*

GPA 3.6 | Jun 2020

## TECHNICAL SKILLS

### PROGRAMMING

Java, Python, Groovy, JavaScript, TypeScript, SQL, Go, Rust, PHP, C, HTML5, CSS, GraphQL,  $\LaTeX$

### FRAMEWORKS

React, Vue, Next.js, Django, Laravel, Svelte, React Native

### CLOUD AND DEVOPS

AWS (ECS, EC2, EKS), GCP, Docker, Kubernetes, CI/CD, Git, Apache, Linux

### DATABASES

MySQL, PostgreSQL, NoSQL, Firebase

## LINKS

LinkedIn: [arsalanwyne](#)

Website: [arsalan.app](#)

## AWARDS

1<sup>st</sup> place Student Research, Consortium of Computing Science Colleges MW'18

Philip Haring and John Houston Award, Promoting International Understanding

Deans Honor List

Mortar Board Member

Sigma Xi Nominee

## PUBLICATIONS

- [1] M. M. McGill et al. Exploring the enacted computing curriculum in k-12 schools in south asia: Bangladesh, nepal, pakistan, and sri lanka. *Association for Computing Machinery*, 2020.

## EXPERIENCE

### Software Engineer | Incentifind

Oct 2024 - May 2025

- Developed and implemented API endpoints for Pro subscription tiers using Laravel and **GraphQL**, supporting new revenue streams for a SaaS platform
- Configured AWS EC2 instances and Integrated CRM platforms including Monday.com, streamlining customer relationship management workflows
- Established debugging systems using Sentry and Metabase, reducing development cycle time and improving data extraction

### Graduate Research Assistant | GWU

Jan 2024 - Present

- Created and Implemented novel LLVM passes for software development and Rust Compiler benchmarking, tracking unsafe rust code execution paths
- Developed benchmarking programs in Rust for Hyper and Tonic (Protobuf, gRPC), leading to improved performance insights and runtime strategies
- Led Machine Learning project in Weak-Strong alignment, an LLM-based reward model to guide another model, a RLAIIF training approach
- Built and evaluated custom LLM pipelines using PyTorch, Huggingface, Ollama and LangChain, including agentic deployment architectures
- Finetuned OpenAI GPT-4o, GPT-4o-mini and BERT then evaluated on SST-2, using Weights and Biases to log training data
- Engineered model interpretability techniques for transformer architectures, visualizing attention to enhance the model decision making process

### Software Engineer | TWST Events (Previously CSS)

May 2021 - Aug 2023

- Led full-stack development and maintenance of 2 **Java** web applications, using Agile development methodologies to deliver new features
- Spearheaded the UI overhaul for **Vue**, **Next.js** and **React** applications following OWASP rules for security and W3C standards for accessibility
- 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
- Directed schema redesign for **MySQL** databases, coordinating Flyway migrations across multi-tenant **Kubernetes** environments
- Administered AWS cloud infrastructure (ECS, EC2, EKS), implemented autoscaling policies, managing VPC and security groups via K9s and IaC tools, enhancing system scalability and uptime
- Reduced downtime by 40% measured by Q/A and production container uptimes by setting up CI/CD pipelines using Docker and GitHub Actions

### Full Stack Engineer | Stream Engine

Nov 2020 - May 2021

- Improved user acquisition by 30% by designing a multi-tenant SaaS product with a shared schema architecture in **Django** and **PostgreSQL**
- Created a robust suite of RESTful APIs and enhanced on UI and UX by using React, leading to improved user satisfaction

## LEADERSHIP ACTIVITIES

### SEAS Ambassador | GWU

Jun 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