Ismaeel Akram

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EDUCATION

Brooklyn College & NYU Tandon School of Engineering   **May 2027**
Bachelor of Science in Computer Engineering

EXPERIENCE

SOROS   **December 2024 – September 2025**
Founding Software Engineer   New York, NY
- Developing Go analytics engine to recommend products to users using heatmap data from AWS Kinesis & Apache Kafka
- Building Go crypto bridge system to take payments and sync activity between Ethereum, Solana, and Bitcoin blockchains
- Architected multi-region AWS worker + microservice infra using Go, RedHat Linux, CloudFormation, EC2, Lambda, RDS, VPCs
- Developed enterprise-grade e-commerce platform frontend and its brand UI component library using NextJS, TailwindCSS
- Created React providers for wallet authentication, crypto payment processing, shipping carriers, and store administration

ParaNano ($30M Series C)   **March 2025 – August 2025**
Software Engineer   Oklahoma City, OK
- Developed product showcase website for preclinical biomedical startup using NextJS, Tailwind, and GSAP

A.U.W. Studio   **September 2024 – June 2025**
Software Engineer   New York, NY
- Developed React websites using Shopify Hydrogen for 5 food, jewelry, and skincare companies with total $300K+ in sales
- Improved 3D asset download time by 73% by automating Brotli model compression with Python, AWS CloudFront, and S3

Outer Labs Studio   **August 2021 – September 2024**
Lead Software Engineer   New York, NY
- Led a team of 4 developers to build websites, mobile apps, and business software for startups and established companies
- Administrated AWS and on-premise Linux infrastructure, serving 40,000+ users worldwide at <70ms latency
- Reduced global API response times by 95% and saved $3K monthly by implementing Go serverless functions on Edge
- Contributed to studio's success, earning 3 industry awards and generating $1M+ profits

AR Vehicle Recovery   **January 2023 – March 2023**
Software Engineer Intern   Oxfordshire, United Kingdom
- Built geo-tracking server to track 12 company vehicles and dispatch recovery operations using WhatsApp & Maps API

SmartBooks360   **February 2022 – November 2022**
Software Engineer Intern   Queens, NY
- Built accounting business website using NextJS and TailwindCSS, and customer portal to track invoices and payment status

PROJECTS

Vulkan 3D Engine with Ray Tracing   **C++, Vulkan, GLSL, CMake**
- Built a C++ Vulkan 3D engine with entity system, depth buffering, 3D model rendering, SPIR-V shaders, albedo textures
- Implemented Physically-Based Rendering (PBR) for reflections and shadows and Ray Tracing using Vulkan extension
- Optimized rendering pipeline using Vulkan Memory Allocator for GPU memory resources, triple-buffered frame data, and GPU timestamp profiling. Also added a rasterization fallback for older, non-ray-tracing hardware

Linux File System Driver for iCloud   **Python, FUSE, Linux**
- Built a Python FUSE driver to mount iCloud Drive as a Virtual File System on Linux devices, added auto-install for SystemD.
- Added caching for file and directory metadata to improve performance, added support for all basic file operations.

ACHIEVEMENTS AND CERTIFICATIONS

1st Prize Winner of IBM NYC WatsonX AI Hackathon   **May 2025**
IBM Full Stack Software Developer Certification   **February 2023**

TECHNICAL SKILLS

Languages: Go, Python, C++, Node.js, TypeScript, Java, .NET, Win32, UNIX
Web: Next.js, React, TailwindCSS, WebGL, React Native, Express, REST & WebSockets, Figma, GSAP
Cloud: AWS, Google Cloud, Linux, Terraform, Jenkins, Kubernetes, Ansible, Docker, Git
Interests: Cloud Architecture, Systems Programming, Web Development, Game Engines, Machine Learning