

ADAM VON KANNEWURFF

Secret Clearance | avonkannewurff@gmail.com | (203)-695-5494

EDUCATION

Georgia Institute of Technology

Master of Science in Computer Science

Remote

January 2023 – December 2025

Coursework: Distributed Computing, Operating Systems, Databases, High-Performance Computing

Virginia Polytechnic Institute and State University

Bachelor of Science in Industrial and Systems Engineering

Blacksburg, VA

September 2014 – May 2019

WORK EXPERIENCE

Senior Software Engineer

KPMG

New York, NY

June 2019 – Present

- Orchestrated the consolidation of multiple legacy systems into a unified platform; led 5 cross-functional teams to deliver 6 applications, scaling to 300,000 users and 5,000+ DAU
- Engineered the infrastructure for a multi-million dollar IoT smart warehouse, implementing hyper-converged virtualization to process 1,000+ RFID scans per second via 100+ physical devices using high-availability networking
- Architected a fleet optimization engine using time-series and simulation ML models, reducing planning cycles by 75% and replacing reactive workflows with predictive insights
- Developed a full-stack MVP accelerator, reducing "Time-to-MVP" by 50%, contributing to multiple contract wins
- Led 3 teams through an enterprise ServiceNow implementation, delivering 5 Healthcare HR applications to 1,000 DAU

Federal Advisory Intern

KPMG

McLean, VA

June 2018 – August 2018

- Developed framework to facilitate pursuance of software contracts, reducing proposal preparation time by 40%

ACHIEVEMENTS

HackOMSCS Winner | "AI Awakening" Category

May 2024

- Engineered a "smart pantry" solution in 24 hours that utilizes computer vision to identify ingredients from user-submitted images and generates personalized recipes via generative AI
- Architected a full-stack cloud-native application by integrating Azure AI Vision for image analysis and an open-source large language model (LLM) for recipe generation, delivering a responsive end-to-end user experience under strict time constraints

PROJECTS

Sharded Key-Value Store | Java, DSLabs

- Engineered a linearly consistent, sharded K/V store using a Multi-Paxos consensus engine to ensure high availability and state machine replication across distributed nodes
- Implemented a Shard Controller to manage dynamic data rebalancing and configuration changes, utilizing a pull-based state transfer mechanism to handle node joins and failures without data loss

Paxos | Java, DSLabs

- Developed a complete Multi-Paxos implementation from scratch, optimizing for performance via log compaction and a heartbeat-based leader election to minimize latency
- Designed robust failure recovery logic to handle network partitions, message drops, and dueling proposers, verified through rigorous adversarial model checking and state-space exploration

CERTIFICATIONS

Salesforce: Architect – Application, Data, Sharing & Visibility, +9 more (12 total)

Other: CompTIA Security+, Scrum Master, ServiceNow Administrator

TECHNICAL SKILLS

Languages: Java, Python, JavaScript/TypeScript, C/C++, SQL (Postgres), HTML/CSS

Cloud & DevOps: AWS, Azure, Kubernetes, Docker, Terraform (HCL/CDKTF), GitLab CI/CD, Splunk

Frameworks: Node.js, FastAPI, React, Vue, Vitest, Jest

Concepts: Distributed Systems, Scalable Backend & APIs, Cloud Infrastructure, Full-Stack Development, CI/CD, Machine Learning