Vlad Catalin Frasineanu

Redmond, WA (+1) 206 465 6019 @ vladcf95@gmail.com Linkedin profile

Education

TECHNISCHE UNIVERSITÄT
M.Sc. in Computer Science
Oct 17 - Sep 19 Berlin, Germany

JACOBS UNIVERSITY
B.Sc. in Computer Science
Sep 14 - Jun 17 Bremen, Germany

Skills

PROGRAMMING
C# • Python • SQL

DATA PIPELINES
Spark • Databricks • Data factory • Synapse • Hadoop • HBase • Kafka

TOOLS/PLATFORMS
Azure services • Azure Resource Manager • Azure DevOps • Git

LANGUAGES
English • Romanian

Projects

DEEP LEARNING ROBOT LOCALIZATION FOR AN AUGMENTED REALITY-BASED VISUALIZATION
Technische Universität
Dec 18 – Sep 19 Berlin, Germany
Project developed as part of my Master thesis. The algorithm was based on a VoteNet neural network architecture proposed by Facebook. The datasets required for training/validating were collected using the Microsoft Hololens device. The trained models where integrated with the Hololens device for running live detections at the end of the project. A more detailed publication on this topic can be found here.

MULTI-DIMENSIONAL POLYGON CLIPPING IN AN 2D/3D ARRAY DATABASE
Jacobs University
Sep 16 – May 17 Bremen, Germany
Project developed as part of my Bachelor thesis. The algorithm was developed in C++ and integrated into the rasdaman engine (multi-dimensional array database).

Experience

SENIOR SOFTWARE ENGINEER — MICROSOFT
Oct 2019 – Present Redmond, WA

- Working on high-scale backend services in the Microsoft Advertising Platform for managing Ads-related entities (Accounts, Campaigns, Ad Groups, and others) and delivering performance reporting through distributed data aggregation pipelines.
- Re-architected a backend service responsible for propagating customer-driven changes to Ads entities across the system. Introduced a multi-queue processing model to replace a single sequential task queue, significantly improving concurrency, reliability, and system responsiveness.
- Led implementation of PII redaction across Microsoft Ads backend logs and built automated monitoring solutions to detect and prevent future PII leaks, ensuring continuous compliance with evolving security requirements.
- Developed resilient APIs and distributed data pipelines for securely delivering Threat Intelligence to internal and external cybersecurity products across the Microsoft ecosystem.
- Optimized API security architecture by consolidating write operations and isolating internal endpoints, enabling selective integration with Azure Front Door. Achieved full security compliance while reducing projected infrastructure costs from $200K to $50K per week.
- Co-engineered a scalable data ingestion platform enabling Microsoft customers to inject custom Threat Intelligence indicators into Azure Sentinel via REST APIs or data connectors.
- Co-architected and implemented a large-scale distributed platform supporting the development and deployment of anomaly detection algorithms in Azure Sentinel. Contributed to core microservices, shared libraries, end-to-end telemetry, and CI/CD automation pipelines.
- Led the onboarding and deployment of backend services in new Azure regions and government clouds, streamlining and automating buildout processes to improve deployment velocity, reliability, and regional scalability.
- Mentored junior engineers by leading code reviews, providing hands-on debugging support, and conducting regular technical knowledge-sharing sessions to foster continuous growth, team collaboration, and engineering best practices.

SOFTWARE ENGINEER INTERN — MICROSOFT
Aug 2018 – Oct 2018 Redmond, WA

- Built a ranking system for customer-facing security reports based on usage analytics and user feedback, helping highlight the most active and relevant threat insights. Exposed rankings through REST APIs for external consumption.
- Developed a search service that indexed PDF-based threat intelligence documents using Azure Search, enabling full-text search with redundancy and failover to ensure high availability and reliability.

SOFTWARE ENGINEER INTERN — MICROSOFT
Jun 2017 – Sep 2017 Redmond, WA

- Designed and implemented an SDK on top of the Microsoft Security Graph for the C+E Security team. Built a companion web application to demonstrate SDK functionality and showcase the value of the Security Graph.