Krešimir Vukić

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Software Engineer

Technical Skills

Programming:	C#, TypeScript, C++, Java, Python, GoLang
Tools:	Azure, Docker, Kubernetes, GIT, Linux, SQL

Education

July 2017-July 2019	**Master of Science in Computing (MSc)**, FER, University of Zagreb
	MSc thesis - Adversarial attacks for image classification models
Oct 2014-July 2017	**Bachelor of Science in Computing (BSc)**, FER, University of Zagreb
	BSc thesis - Deep neural networks for emotion recognition

Work Experience

Oct 2019-Present — **Software Engineer at Microsoft, Vancouver**

Azure - Compliance and Security - Product Catalog
- Developing tools for managing inventory of Microsoft's engineering artifacts.
- Enforced Azure DevOps repository ownership mapping on over 80.000 repositories through Azure Function which blocks PRs on un-inventoried repositories.
- Implemented a process for storing sensitive telemetry for assignment of private projects.
- Implemented fallback mechanisms, caching, and safety validations for inventory enforcement policies. They are running bug-free and without any maintenance ever since (for the last 5 months).
- Added GitHub repository mapping functionality to Product Catalog.
- Isolated and standardized E2E integration tests to remove flakiness and improve developer experience.

Azure - Compliance and Security - Policy Service
- Developing systems for distributing security and compliance policies through Azure DevOps.
- Implemented branch policies for ensuring that all changes are reviewed before reaching production environment.
- Implemented build policy for functional test verification in Azure DevOps.
- Migrated policy tooling UIs from years old React to a new architecture with React Hooks which improved maintainability and reduced security vulnerabilities through updated dependencies.

Nov 2017-Sep 2019 — **Software Engineering Intern at Axilis, Zagreb**

Betting platform UI for internal use (TS, React, GoLang)
- Developed interface for traders where they can map betting data sources to live and future match events.
- Created an audit system for aggregating logs and monitoring anomalies.

Betting platform (GoLang)
- Implemented system for lotto reward calculations and lotto ticket validation.

Contact matching application (JS, Node, React-Native)
- Full-stack dev: deployment, DB migrations, SendGrid integration, UI implementation.
- Reimplemented sign-in flow so that it doesn't require storing unconfirmed tokens.
- Designed and created context-aware, asynchronous tutorial layer for the iOS.

Feb 2016-Nov 2017 — **Software Engineering Intern at CROZ, Zagreb**

Order Execution for T-Mobile Croatia (Java, Angular 2)
- Worked on specifying business processes with BPMN.
- Built docker images and set up Gradle build scripts for mock server and Redis DB.
- Created a dashboard for data overview in form of graphs (with D3.js).

Blockchain on IBM Hyperledger Fabric (GoLang, JavaScript)
- Team leader for students at a summer internship.
- Created a demo business network for real estate transactions on blockchain.

Project management application (Java, React)
- Improved responsiveness by optimizing DB queries and implementing pagination.
- Improved front-end code architecture by enforcing unidirectional data flow with Redux.

Languages

Native: Croatian | Fluent: English | Basic Knowledge: German, Spanish