Aleksandar Topuzović

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Professional Profile

Principal Software Developer with 13+ years of experience in infrastructure automation, networking, and distributed systems. Proven expertise in designing and implementing large-scale automation solutions across mission-critical environments. Demonstrated success in leading cross-functional teams, mentoring engineers, and driving technical initiatives across organizational boundaries. Strong background in networking, security, Kubernetes, CI/CD, observability, and large-scale system design. Specializes in establishing technical standards and building reusable automation frameworks that improve operational efficiency and system reliability.

Education

2025 — **Postgraduate certificate in applied machine learning**, *TU Dublin*, Ireland
Thesis: Deep reinforcement learning for the game of tetris
`https://github.com/atopuzov/tud-drl-project`

2011 — **Master of Engineering in Computer Science**, *University of Zagreb, Faculty of Electrical Engineering and Computer Science*, Croatia
Thesis: Determining technical trading rules using genetic programming
`https://github.com/atopuzov/gp-market-trading`
`https://www.bib.irb.hr:8443/526695/download/526695.diplomski.pdf`

Work Experience

Mar 2019 - Apr 2025 — **Principal Software Development Engineer**, *Workday*, Dublin, Ireland

- Led development of automation frameworks and tooling for network infrastructure management, significantly reducing deployment times and operational overhead
- Architected and implemented monitoring solutions for datacenter infrastructure, providing critical visibility across multiple colocation providers
- Served as team Security Champion, leading threat modeling initiatives and establishing security review processes
- Established and standardized SDLC practices including containerization and CI/CD pipelines, adopted across multiple teams
- Mentored engineers in software development practices, focusing on automation and infrastructure as code
- Led cross-team technical initiatives, coordinating work across multiple organizational units
- Managed migration of critical infrastructure services to modern technology stacks
- Drove standardization of development practices and environments across teams

Sep 2015 to Dec 2018 — **Software Engineer**, *Demonware (Activision-Blizzard)*, Dublin, Ireland

- Led containerization initiatives, migrating traditional software stack to container-based deployments using Marathon/Mesos and later Kubernetes
- Designed and implemented configuration management solutions for complex distributed applications, focusing on Python and Erlang services
- Established comprehensive observability stack including Prometheus, Alertmanager, and Grafana with long-term metrics retention
- Built platform automation and infrastructure reporting tools for managing load balancer configurations and application deployments
- Engineered logging solutions using Fluentbit and Elasticsearch, implementing flexible parsing based on pod metadata
- Managed multiple Kubernetes clusters across AWS and datacenter environments
- Developed declarative deployment pipelines and configuration management tooling
- Mentored engineers in development practices, troubleshooting approaches, and Kubernetes platform usage

Nov 2012 to Sep 2015 **Systems Engineer**, *Amazon*, Dublin, Ireland

- Developed and maintained critical global infrastructure management tools for load balancer fleet operations
- Architected solutions for private IP space exhaustion affecting multiple datacenters, enabling continued infrastructure growth
- Built and standardized network device automation tools, becoming the company standard for NetScaler management
- Led regionalization project enabling customer self-service for load balancer configurations across multiple regions
- Specialized in complex troubleshooting at the intersection of networking and systems, resolving critical customer-impacting issues
- Participated in elite on-call rotation supporting critical infrastructure
- Conducted technical interviews for SDE, Network Development Engineer, and Systems Development Engineer roles
- Managed distributed team operations across Dublin and Seattle offices

Professional Development

2023 **Advanced Functional Programming in Haskell**, *Utrecht University*, Utrecht, Netherlands

2018 **Erlang training**, *Erlang Solutions*, Dublin, Ireland

2007 **Project Management**, *Faculty of Civil Engineering, University of Zagreb*, Croatia

2003 to 2007 **CISCO network training**, Croatia

- CCNA, CCNP, CCVP, MPLS, Security and VPN
- Workshop on optical technologies

Languages

Croatian	Native speaker	
English	Fluent	*Business English Certificate Higher Grade A, IELTS Academic Band 8*
German	Intermediate	
Spanish	Basic	

Skills

Architecture	Kubernetes, Docker, AWS, Oracle, Load Balancing, Infrastructure as Code
Programming	Python, Golang, Perl, Bash
DevOps	Ansible, Terraform, Chef, Jenkins, CI/CD Pipelines
Networking	NetScaler, F5, Cisco NX-OS, BGP, DNS, IPAM
Observability	Prometheus, Grafana, Thanos, FluentBit, Alertmanager
Databases	PostgreSQL, MySQL, Data Modeling