Alexandra "Sasha" Zelenski

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Seattle-based full-stack software engineer with experience in system design, API development, and distributed systems.

Skills

- **Programming Languages:** Python, Java, JavaScript/TypeScript, C/C++
- **Backend & API Development:** Databases (SQL and NoSQL), Spring, Postman
- **Infrastructure & Cloud:** AWS, Docker, Jenkins, Terraform, Nomad, Rundeck, Prometheus, Grafana
- **Tools & Practices:** Git, Splunk, Agile

Experience

Software Engineer I, Engineering Services Team   06/2022 - 04/2024
Qualtrics   *Seattle, WA*

- Developed custom automations on distributed systems in Python and Java to extend product capabilities
- Built secure tool using Qualtrics API for bulk updating survey data via CSV upload
- Re-architected legacy customer data pipeline, cutting runtime by 50% and reducing client costs
- Automated brand health monitoring system in Python and helped update existing API to support it
- Created API endpoints in Java and implemented MySQL schema changes for Course Evaluations feature
- Supported production systems built on AWS services including Lambda, S3, IAM, and CloudWatch

Software Engineering Intern   05/2021 - 08/2021
Collins Aerospace   *Cedar Rapids, IA*

- Architected new framework for PTS-200 power supply testing system in C#
- Initiated conversion from legacy VB6 system, saving up to $3.6M over next 15 years
- Conducted stakeholder interviews to improve system interoperability between engineering teams

Undergraduate Research Assistant   05/2019 - 05/2022
UI Technology Institute, UI Hydroscience and Engineering   *Iowa City, IA*

- Developed ML model to forecast chemical sensor readings from chlorination system in Nicaragua
- Analyzed oil weathering patterns in MATLAB, enabling reduced usage of dispersants in oil spill cleanup
- Created algorithm for linking petroleum compound signatures across Deepwater Horizon oil spill samples
- Co-authored paper on petroleum signal analysis for IEEE Oceans Conference

Education

B.S.E. Computer Science and Engineering with Honors   08/2018 - 05/2022
Mathematics Minor
University of Iowa   *Iowa City, IA*

- GPA 3.51/4.00
- Teaching assistant for Linear Systems II

Projects

Senior Capstone Project   11/2020 - 05/2021
University of Iowa, sponsored by Collins Aerospace   *Iowa City, IA*

- Designed embedded ML tool in Python with TensorFlow to increase safety among fatigued pilots
- Developed eye-tracking algorithm to monitor pilots' gaze direction in real-time within 3 degrees of error