

Alexandra “Sasha” Zelenski

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Seattle-based full-stack Software Engineer with experience delivering reliable solutions across the full software development lifecycle. Full-stack Software Engineer with experience delivering reliable solutions across the full software development lifecycle.

Skills

Programming Languages: Python, Java, Javascript/Typescript, C/C++

Tools and Frameworks: MySQL, MongoDB, Nomad, Docker, Jenkins, Postman, Rundeck, AWS, Spring, Agile, Git

Experience

Software Engineer I, Engineering Services Team

06/2022 - 04/2024

Qualtrics

Seattle, WA

- Built custom automations in Python and Java to support brand-specific needs not met by core Qualtrics product
- Created secure tool for bulk updating survey data via CSV upload, replacing previous manual process
- Re-engineered legacy system for managing customer data, cutting runtime by 50% and reducing client cost
- Led development of Course Evaluations feature with major changes to MySQL database and backend codebase
- Created automation for reporting on brand health in Python using Qualtrics API, enabling early detection of outages
- Provided on-call support for multiple brands, resolving high-impact issues and implementing long-term solutions

Software Engineering Intern

05/2021 - 08/2021

Collins Aerospace

Cedar Rapids, IA

- Designed new layered framework for PTS-200 power supply testing system with two other interns
- Initiated conversion from Visual Basic 6 to C#, saving up to \$3.6M over next 15 years
- Surveyed engineering teams and technicians to increase software compatibility between departments

Undergraduate Research Assistant

05/2019 - 05/2022

UI Technology Institute, UI Hydroscience and Engineering

Iowa City, IA

- Developed tool to analyze oil weathering, enabling reduced usage of dispersants in oil spill cleanup
- Algorithmically linked petroleum compound signatures across samples from Deepwater Horizon oil spill
- Built multi-step LSTM network to forecast pH and ORP sensor readings from chlorination system in Nicaragua
- Co-authored paper for IEEE Oceans Conference and future publication

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 machine learning tool to increase safety among fatigued pilots
- Developed eye tracking algorithm to detect pilots' gaze direction within 3 degrees of error and record movements