

Will Taylor

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PROFESSIONAL EXPERIENCE

Software Engineer II (Fullstack) | Qualtrics, Seattle, WA | May 2021 – Present

- Designed, built, and maintain internal toolchains for Resiliency and Isolation testing, including dependency detection, fault-injection, and just-in-time UDP/TCP traffic mocking, which provides quality controls for 1200 microservices handling Qualtrics' total traffic and saves upwards of \$1 million per year in external testing contracts
- Led a cross-team engineering effort to create a staging-wide test run management system in order to enable centralized, scheduled resiliency testing, horizontal scale testing, and real-time test results for in-house tools which saves developers an average of 10 minutes per run for over 400 tests run per quarter
- Designed and built an internal Homebrew CLI tool that saves hundreds of hours of developer time in DevOps per quarter by enabling local performance A/B testing and safe incident reproduction. Executed an engineering-wide gameday with this tool that identified 50 high priority action items for key systems
- Architected an autonomous test running, targeting, and communications platform that leverages internal Scale and Resiliency tools to provide continuous validations of service fault resiliency and scale limitations in order to enforce scale and resiliency health metrics and prevent performance regressions
- Created teaching materials and presented eng-wide on scalable design, intelligent testing, and proprietary toolkits for 180 developers in order to improve tool adoption and inform impactful testing
- Translated business value into technical features to write several key northstars which secured long-term buy-in for Resiliency testing & automated test execution and contributed around 15 weeks per quarter to quarterly planning

Software Engineer Intern (Fullstack) | Qualtrics, Seattle, WA | June 2020 – Sept 2020

- Designed & implemented a robust, resilient, and highly performant isolation testing tool to enable safely load testing heavily interconnected systems
- Cooperated cross-team in order to capitalize on existing internal tools and promote early isolation testing adoption

Software Engineer & Data Analyst | VPGame Inc., Bellevue, WA | June 2019 – Sept 2019

- Created an end-to-end data pipeline to analyze & store customer data with high throughput to handle a multi-million daily active user count
- Exposed both RPC & RESTful APIs to provide user access to aggregate data while ensuring database security
- Implemented an autonomous social media manager to integrate with existing systems to cover the DOTA 2 tournament "The International 9"
- Architected a NoSQL to SQL database port with an online query and visualization system to enable data analytics

IT Support | Progressive Awareness Research Inc., Spokane, WA | June 2018 – Sept 2018

- Front-end web development through the Shopify API to maintain PAR's online store
- Automated product art processing and standardization for store modernization
- Optimized site design and SEO, leading to a direct increase in sales

Player, Caster, Personnel Management | Rise eSports, Phoenix, AZ | Oct 2015 – Mar 2018

- Created promotional material for the founding of Rise eSports, including event casting
- Competed live on stage in the Cheesadelphia 4 and Cheesadelphia 6 *StarCraft II* tournaments
- Recruited, coached, and managed talent for the academy and professional rosters

EDUCATION

Bachelor of Science: Computer Science | University of Washington | Sept 2017 – Mar 2021
Interdisciplinary Honors Program and a specialization in Data Sciences

SKILLS AND PROJECTS

EmotiBoo (Back-End Server & API Integration): Application to supplement conversation via real-time sentiment analysis of facial expression and body language

- DubHacks 2018, winner of Accessibility Track

Languages: Java, Python, GoLang, C, C++, JavaScript, TypeScript, HTML, CSS

Tools & Frameworks: Flink, SQL, NoSQL, GCE, AWS, Docker, Jenkins, Consul, Nomad, Gremlin, AWS FIS, TensorFlow, Pandas, Artillery, ChaosToolKit & Pumba, Selenium, PyTorch, ElasticSearch, Qamel, React, Webpack, NodeJS