Malcolm Crum

Programmer and problem solver

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Experienced software developer with seven years of expertise in delivering high-quality code and software in dynamic environments. Seeking a remote role focused on customer-facing products that challenge me to grow and leverage my coding and mentoring skills. I love to code and to mentor fellow colleagues, and I enjoy leading and learning in equal amounts.

Experience

Pyrra, remote - *Senior Software Engineer, 2023 to 2024* - TypeScript, NextJS, Postgres, ElasticSearch, ML
Project Overview: Developed an AI-driven search product managing billions of posts from unmoderated social media, utilizing ElasticSearch for data storage.
Personal Contributions:
- Built UI and backend using NextJS
- Set up automatic deployments with GitHub Actions
- Established infrastructure in AWS with Pulumi
- Unified external API and NextJS applications to simplify and share code
- Introduced end-to-end tracing and monitoring with Datadog
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KTBYTE, remote - *Tech Lead, 2020 to 2023* - Java, TypeScript, React, MySQL, DevOps, team management
- Led team of four to develop KTBYTE's online educational coding platform, with realtime audio/video and IDE streaming between teachers and students
- Created an auto-scaling virtual machine management system for advanced students to learn in
- Tightly integrated frontend/backend tooling to increase safety, velocity, and developer experience.

DiUS Computing, Melbourne, Australia **-** *Software Developer, 2019 to 2020* - Kotlin, Java, ML
Worked on several projects uplifting older components and building new ones to integrate into existing systems for clients, including:
- Uplifting employee-management software written with Spring Boot to integrate with SAP
- Built out new Kotlin service supported with MySQL and RabbitMQ to ensure legal compliance for billing
- Work within client team to build new React UI and Kotlin backend to manage monthly interest distributions, using MongoDB and RabbitMQ, within existing microservice ecosystem
- Built out product backend for internal machine-learning project, working with AWS, NodeJS and React

TestObject / Sauce Labs, Berlin **-** *Software Developer, 2015 to 2018* - Java, Angular, React
Built a software testing PaaS. Deeply involved in all aspects of the development process, from devops to deploys. Developed new features to reliably interact with physical Android and iOS devices, as well as maintaining and refactoring old code. Projects included:
- Integrated seamless HTTP proxy service for device testing, allowing customers to test apps and services that require private network communication
- Split monolith into independently deployable services for integration into multiple datacenters, enabling global distribution of real device cloud platform
- Migrated TestObject Angular UI to Sauce Labs React codebase
- Introduced end-user metrics and improved reliability by 10x

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Sonos, Inc, Santa Barbara, CA - *Software Test Engineer, 2012 to 2015*
Lead tester in a mature, fast-paced Scrum team. Took pride in ensuring first class quality over all of Sonos' software controllers.
Led feature and regression testing on seven major software releases for desktop and mobile platforms, including wireless setup, parallel updates, and an HTML5 webview for music services.

Education

UC Santa Cruz - *Graduated 2012*
Bachelor of Science, Computer Science

Etcetera

- Capable and comfortable with TypeScript, Java, Kotlin, and I love to learn new languages and tech
- Scrum Master certified
- AWS Certified Cloud Practitioner
- Founder and host of Nelson Dev Group meetup
- Presented at CHCON 2022 on Automatic APIs: https://youtu.be/wSlt0ZxFQjY

References available on request.