Brad Zacher

Software Engineer, Knowledge Enthusiast.

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Summary

Brad is an experienced engineer with passion for code quality. He has a particular focus on codebase standards, maintenance and automation at scale, and fostering an engineering culture of ownership and quality. With a career spanning enterprise, start-ups and global tech leaders, he is an expert UI engineer with extensive experience working closely with users and stakeholders to design and build intuitive interfaces to simplify complex workflows. Committed to professional growth, he has a strong desire to learn and improve skills, and a focus on producing efficient, high quality solutions to problems.

Experience

Meta *San Francisco CA – USA*	Front-End Engineer E5	August 2018 - Current	
TypeScript-ESLint *Open Source*	Core Maintainer	November 2018 - Current	
Assignar *Sydney NSW – AUS*	Engineering Lead	February 2017 - July 2018	
SA Power Networks *Adelaide SA – AUS*	Software Engineer	February 2013 - February 2017	
University of Adelaide *Adelaide SA - AUS*	Computer Science Tutor	February 2012 - December 2012	

Education

University of Adelaide	Bachelor of Computer Science (Honours), Software Engineering	2009 - 2012

Publications

Boosting Search for Recursive Functions using Partial Call-Trees
Brad Alexander, Brad Zacher
Parallel Problem Solving from Nature – PPSN XIII   September 2014

Using Scaffolding with Partial Call-Trees to Improve Search
Brad Alexander, Connie Pyromallis, George Lorenzetti, Brad Zacher
Parallel Problem Solving from Nature – PPSN XIV   August 2016

Skills

JavaScript	TypeScript	Flow
React	GraphQL	NodeJS
Hacklang / PHP	AWS	SQL

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Career Overview

Meta (Facebook)   August 2018 - current

Front-End Engineer – E5

I began my career at Meta working on an internal team, building interfaces to support engineering workflow that optimized efficiently and management of back-end services. This work entailed the development and roll out of UIs that brought together data from multiple systems to help reduce the number of manual, error-prone steps that existing workflows required.

During my tenure with Meta, I was scouted to join the *Flow* team, helping to build the language that powers the front-end codebases at Meta. In this role, I worked closely with users to design language features that not only improve the developer experience, but also improve the safety of the codebase. A highlight of my work on this team was the opportunity to design and built codemod tooling to help the team make safe, automated changes to Meta's large (>500k files) monorepos in order to help roll out changes to the language.

Additionally, as my 20% project (a unique opportunity to invest my skills in a passion project outside of my role) I owned and maintained the ESLint tooling at Meta. In this capacity, I drove changes to the infrastructure to drastically improve performance and reliability of one of the central pillars of the front-end developer experience.

TypeScript-ESLint   November 2018 - current

Core Maintainer

As a core maintainer for TypeScript-ESLint, I am responsible for managing issues – investigating bug reports, and triaging feature requests, as well as for reviewing pull requests from contributors. I also work across the complex internals of the project to improve the performance and reliability, and to keep the project up-to-date with the frequent TypeScript releases.

I work closely with the other core maintainers to set the direction of the project, manage our policies like our contributor code of conduct, and to decide how to best manage our donation fund to reward contributors and maintainers alike for their volunteered contributions. The tools we provide have combined total of over 100 million downloads per week, and help millions of projects to catch bugs and enforce better code standards.

Assignar   February 2017 - July 2018

Lead Engineer

During my time at Assignar, I helped the engineering team transition to a quality-focused culture; emphasising maintainability, and shared knowledge and ownership. We worked to implement tools and practices for managing the growing the team; enabling code reviews, code checks, and agile workflows, backed by comprehensive automated testing suites.

Additionally, we worked to build out and stabilize the platform and product, using a variety of technologies; React, NodeJS, and AWS. I also worked closely to plan and design changes to the platform so that it was prepared for the company's future enhancements and expansions.

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I worked on many parts of the platform; implementing new features in both the front and back end, migrating legacy front-end code from AngularJS to React, migrating legacy back-end code from PHP to a NodeJS GraphQL API, as well as implement new build tools and CI pipelines.

SA Power Networks   February 2013 - February 2017

Software Engineer

After transitioning to a full time software engineering role at SA Power Networks, I had the opportunity to help lead the business toward a mobile future; working with SAP Mobile technologies as well as in-house mobile-first web applications.

Using SAPUI5, I helped develop the user experience for the company's first touchscreen application, delivering a set of warehouse management applications to improve the efficiency and accountability of the company's largest warehouse.

I also helped spearhead the first agile team which worked extensively with SAPUI5 to build bespoke, cross platform applications for the business. One of our apps was nominated for the Australian Engineering Excellence Award, and won a coveted High Commendation.

University of Adelaide   February 2012 - December 2012

Computer Science Tutor

As a tutor at University of Adelaide, I was required to look after classes of up to 60 students; answering any questions the students had about their course work, ensuring they correctly understood their coursework, and that they could apply it appropriately. I was also responsible for marking their assignment work as well as being in charge of looking after their safety and well-being.