

Tomas Bolger

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About Me

Skilled and results driven Software Engineer with a passion for building great products.

Education

Bachelor of Software Engineering (Honours)

Monash University

Completed with distinction

Work Experience

SEEK Ltd. | 02/2022 - Present

Full-Stack Software Engineer

Key Responsibilities and Achievements:

SEEK API Team (<https://developer.seek.com/>)

- Adding new features to the event driven web-hook systems responsible for delivering job applications and other data to SEEK's integration partners
- Trouble-shoot and respond to production incidents through to resolution as a member of the teams on-call roster
- Developing a web-hook testing tool to assist software developers in seamlessly integrating with SEEK
- Building embeddable widgets that partners can leverage in their UI's to reduce integration effort and enhance customer experience
- Contributing to SEEK's external GraphQL API

SEEK Business (www.seekbusiness.com.au)

- Uplift legacy SEEK Business .NET systems into a React-Typescript microservices stack
- Architecting and building a modern, low-latency authorisation system
- Rebuilding the sites legacy search API in Typescript and migrating Elasticsearch indexing from a time based system to an event-driven one
- Rebuilding the homepage
- Developing a user preferences search API, enabling the development of products that leverage buyer intelligence

Transurban | 07/2020 – 12/2021

Data Engineer

Key Responsibilities and Achievements:

AI, ML and Analytics Team

- Implement and maintain ETL processes for warehousing traffic data collected from IoT device's on the road

- Design and develop API and data infrastructure for in-house license plate recognition software
- Design and implement a data-streaming solution for transforming and warehousing real-time traffic data for external roads, allowing Transurban to better react to incidents and conditions on roads near their assets
- Perform impact and cost assessment for proposed solution architecture

Technical Skills

- **Web Development:** Experience building full stack web applications using React, Typescript, GraphQL (Apollo Server) and AWS
- **Software Testing:** Proficiency writing tests with Jest, React Testing Library, and Cypress
- **AWS:** High proficiency in using a wide number of AWS services
- **Event Driven Systems:** Experience developing event driven solutions using AWS Lambda functions and SQS queues
- **Infrastructure as Code:** Skilled in Serverless, Terraform and AWS CDK
- **Database Technologies:** Expertise with PostgreSQL, DynamoDB, Redshift
- **CI/CD:** Experience using Buildkite and Github actions for CI/CD

Open-source Contributions

Scalpel

<https://github.com/SMAT-Lab/Scalpel>

Scalpel is a Python Static Analysis Framework that provides essential program analysis functions that assist in building robust Python applications. I significantly contributed to this frameworks type inference module by implementing a nascent heuristic based type inference system.

Wingman

<https://github.com/seek-oss/wingman>

Serves as a practical reference for third-party developers integrating with the SEEK API. I contributed to its location suggest UI components.

Interests

- Skateboarding
- Software development (<https://github.com/tbolg>)

References

David Sier: Enterprise Data Engineer, Transurban | 0401691369 | dsier@transurban.com