Tyler Mack Davis

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Experience

Software Engineer October 2026 – Present

Optiver – Production Engineering *Sydney, Australia*

- Defining a global software ontology to standardize how Optiver describes its software.
- Building a software catalog that brings together ownership information and other metadata.

Senior Software Engineer August 2021 – October 2026

Canva – Developer Environment *Sydney, Australia*

- Launched Backstage instance internally and led integration with multiple internal teams, resulting in a comprehensive Software Catalog used by the entire company.
- Led improvements to operations and reliability improvements to bring internal tooling to similar maturity levels with external products.
- Onwed core local developer environment tools, such as a CLI for managing Okta sessions, which balanced security and user experience.
- Led full migration project from Backstage to Cortex, including vendor relationship and internal stakeholder management.

Software Development Engineer III January 2021 – July 2021

AWS – Builder Tools (Build Execution) *Sydney, Australia*

- Restricted CI build network access across Amazon in the interest of build idempotency, hermeticity, and security.
- Interviewed and trained engineers to grow a new Build Execution team from scratch Sydney and then in Seattle.

Software Development Engineer II April 2017 – January 2021

AWS – Builder Tools (Build Execution) *Seattle, USA and Sydney, Australia*

- Built a cross-platform package manager for internal tools called Builder Toolbox, scaled up to 60k+ monthly unique users internally.
- Owned infrastructure and tooling that helped engineers across Amazon build and test software with Brazil, the company's internal build system.

Software Development Engineer II March 2015 – March 2017

Amazon – International Expansion (Amazon.in) *Seattle, USA*

- Developed core features for Amazon.in search pages including Amazon Prime.
- Designed and developed mobile-device focused experiments to reduce page latency.

Software Development Engineer I January 2013 – February 2015

Amazon – International Expansion (Junglee.com) *Seattle, USA*

- Following on from internship: May - August 2012
- Developed site wide features with a focus on latency measurement and improvement, eventually leading to the launch of amazon.in.
- Implemented a scalable multi-dimensional view for product variations (ex. both size and color of shoes).

Education

Appalachian State University Graduated - 2012

Bachelor of Science - Computer Science *Boone, North Carolina, USA*

Open Source

All projects listed here are available at gitlab.com/phinnaeus or github.com/phinnaeus.

crossproduct: Shared leaderboard website for NYT Mini Crossword times. Initially Python/Django, now Elixir/Phoenix.

journal: Go CLI with embedded web server/UI for tracking daily work, TODOs, useful commands, and more. Avoid memory troubles at daily stand-up meetings.

react-calendar: React Component written in Typescript which renders one or more calendars and supports date selection.

guessbot: Discord Bot written in Python which allows users to guess a secret number; generates charts of results and informs the closest guesser of their victory.

Skills

Programming Languages: Go, Elixir, Java, Python, Typescript, Ruby

AWS: CDK/CloudFormation, Code*, Serverless (API Gateway, Lambda), ECS Fargate, S3, Cloudfront

Frameworks/Tools: Phoenix, Django, Docker/OCI, Nix, Bazel, React