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EMPLOYMENT

Senior Software Engineer   **Stash Financial**   **April 2021 - Present**

- Maintained the in-house public API gateway using nginx, OpenResty, and Lua.
- Established developer standards, a unit testing framework, hundreds of unit tests, and implemented continuous integration pipelines using GitHub Actions for the public API gateway. Overall reducing on-call incidents from a few times per week down to just a few times per year.
- Created a unified infrastructure for the public APi gateway across AWS regions using Terraform and Terraform Cloud.
- Constructed AWS Lambda tooling using Go to support required public API gateway functionality such as cluster member discovery, instance lifecycle management, health checks, and multi-region service discovery.
- Developed plugins for Spotify's Backstage to enable managers and engineers the ability to visualize their impact across services, teams, domains, and the entire engineering organization. Plugins written in TypeScript and AWS Costs, DORA metrics, and a Technology Radar.
- Built GitHub Actions reusable workflows and composite actions in order to establish standards across the organization and enhance the developer experience.
- Maintained the project generator CLI tool in Javascript to enable engineers to quickly create new services following the latest in-house standards for Terraform, Kubernetes, and GitHub Actions.

Full-Stack Developer   **Univ. of WA; Web Services**   **August 2018 - April 2021**

- Modernized legacy .NET Framework web-services using C#/.NET (nee .NET Core), ASP.NET MVC, MS SQL Server, and Elasticsearch.
- Developed an event attendance tracking application used across campus, replacing many third-party applications, using Node, React, and Docker.
- Eliminated countless batch processing delays by creating real-time integrations with Workday C#/.NET, AWS SQS/SNS, and Elasticsearch.
- Implemented continuous integration pipelines using both GitHub Actions and Azure DevOps.
- Established infrastructure-as-code using Terraform and Atlantis running in Fargate.

Database Developer   **Univ. of WA; Data Warehouse**   **February 2018 - August 2018**

- Integrated multiple datasets into the data warehouse using the in-house, SQL-based extract-transform-load engine.
- Supported the single source of truth for enterprise data at the University of Washington.

Application Developer   **Univ. of WA; University Services**   **May 2012 - February 2018**

- Modernized and redesigned legacy Informix 4GL applications using C#/.NET Framework, ASP.NET MVC, Microsoft SQL Server, and jQuery.
- Built numerous new line-of-business web-applications - gathered user requirements; developed mockups; software implementation, maintenance, and support.
- Implemented continuous integration pipelines using on-premise team foundation server (TFS).
- Mentored developers experienced in other languages learning C#.

Web Developer   **Univ. of WA; Facilities**   **August 2006 - May 2012**

- Maintained dozens of websites for Facilities Services units by migrating to a unified content management system using Drupal, Apache, PHP, and MySQL.

EDUCATION

Seattle, WA   **University of Washington**   Bachelor of Science, Informatics

OPEN SOURCE CONTRIBUTIONS & PERSONAL PROJECTS

Contributions

- jDip, ZenPhoto, Homebrew (cask formulas), QMK, Humio Terraform Provider, Spotify's Backstage FireHydrant Plugin

Personal Projects

- TwoMQTT framework, numerous MQTT integrations, ESPHome components, and more on https://github.com/mannkind