

Tim Williams

Software Developer


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PROFESSIONAL EXPERIENCE

Co-Creator/Software Developer, *Snowclone*

01/2024 – present | Remote

Snowclone is a secure, open-source backend-as-a-service (BaaS) with real-time functionality that streamlines provisioning infrastructure to the AWS cloud.

- Implemented a containerized multi-server backend architecture, incorporating APIs for schema migration, REST, and real-time notifications, all powered by a PostgreSQL database (Node.js, Express, and Docker)
- Engineered a real-time server to monitor database changes and broadcast updates to clients using Server-Sent Events (Node.js, PostgreSQL, SSE)
- Deployed containerized backend architecture into Elastic Container Service (ECS) Fargate, with Application Load Balancer coordinating client API requests (RDS, Dyanmo DB, S3)
- Enhanced data security by utilizing AWS security groups and private subnets, enabling secure backend multi-tenancy within protected network segments
- Built a CLI npm package to automate provisioning and teardown of AWS cloud infrastructure, accounting for 55 resources per backend (Terraform)
- Secured communication between CLI and backends via API keys and JSON Web Tokens
- Collaborated remotely with a team of four developers using agile workflow. (Slack, Github)
- Authored comprehensive technical case study detailing the problem domain, system design, and engineering decisions. <https://snowclone-base.github.io/casestudy/introduction/> 

Software Developer, *Self-employed*

10/2021 – 11/2023 | Remote

Developed web applications, including:

- *Rekwestbin* - tool for collecting and debugging webhooks (Node.js, Express, MongoDB, Nginx)
- *Record Store* - inventory management tool (Node.js, Express, PostgreSQL, Pug)

Desktop Analyst, *Silicon Labs*

05/2014 – 10/2016 | Austin, USA

- Supported mixed Windows | OSX | Linux environment of 500 users
- Assisted DevOps team with Chef infrastructure deployment and network team with Cisco firewall tasks

SKILLS

Languages & Frameworks

Node.js, Javascript, TypeScript, React, Express, Go, PostgreSQL, MongoDB, HTML, CSS, Jest

AWS Cloud

ECS, EC2, S3, DynamoDB, RDS, CloudWatch, IAM, Route 53, VPC networking, API Gateway, Lambda


Other Technologies

Docker, Git/Github, Terraform, HTTP, RESTful APIs, Nginx, Postman, DigitalOcean Droplets, Bash, Linux

EDUCATION

Launch School

2021 – 2023

Multi-year, mastery-based software development curriculum. Read more at launchschool.com/employers 

Rice University, *BA History*

2008 – 2012

- 4.0 major GPA