Giovanni d'Amelio
Software Developer

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SUMMARY

I am a jack of all trades developer who equally loves designing/developing reliable and scalable services as well as working on build/deployment pipelines from source control to production. I have experience working on small teams where I have gained expertise in a wide range of tasks, and I thrive in environments where I can wear many hats.

I have a deep passion for open source software, which I have used almost exclusively for a number of years now. I love learning new programming languages and paradigms, and I am always eager to learn new and interesting things, whether they are tech related or just a random fun fact.

SKILLS

- ➔ **Languages:** Typescript/Javascript, Golang, Ruby, Python with splash of Elixir, Rust and Clojure
- ➔ **Backend Libraries/Frameworks:** Express, Rails, Django, GRPC
- ➔ **Frontend Libraries/Frameworks:** React, Ember, Vue, HTMx, Redux
- ➔ **Databases:** MySQL, AWS Aurora, PostgreSQL, Redis, SQLite
- ➔ **Testing:** TDD, Jest, FactoryBot, Various mocking libraries
- ➔ **Tooling:** Git, Vim, Shell scripting, Linux
- ➔ **Deployment:** AWS, Terraform, Docker/Podman, Packer, Linux
- ➔ **AWS:** Lambda, API Gateway, SQS, Route53, S3, IAM

EXPERIENCE

Square - *Senior Software Developer (L5)*
September 2021 - January 2022

Updated signup webapp to comply with multiple countries regulatory requirements, by building a series of state machines to ensure that the correct data is collected. Updated webapp to use new company wide design language.

Focused on solving business problems to enable Square to expand into new markets. Designed and implemented internal tooling to allow quicker and easier marketing flows for referral promotions. Lead a project that would go on to allow very large targeted marketing campaigns with complex requirements in an automated manner.

- Designed a webhook that would allow communication between marketing platforms. It's existence allows non technical staff to create referral campaigns without involving engineering saving everyone time
- Worked on updates to internal tooling to place more safeguards in place to protect against unauthorized promotions
- Helped implement changes against many services to allow business in a new vertical that is fraught with regulation

Avalara - *Software Developer (SDE2)*
September 2017 - August 2021

Collaborated with my team to architect Node.js/Typescript microservices on AWS Lambda and integrate new systems with existing products across the company.

Spearheaded initiative to overhaul CI/CD system for my team as part of a company wide migration to using GitLab. Over the course of two months I planned and led the implementation of a new CI/CD pipeline and not only met the goal of reaching feature parity with our old deployment system, but improved performance and added quality of life improvements.

Served as the team's Security Champion whose responsibilities include:

- Keeping a keen eye for security implications throughout the design, implementation, and maintenance phases of a project
- Maintaining a relationship with the companywide SECENG team and the community of Security Champions
- Staying up to date with industry-wide vulnerability discoveries and guiding the team to adapt to the evolving security landscape

Code Fellows School - *Lead Teachers Assistant*
November 2016 - August 2017

Provided guidance to students on advanced JS concepts, including Node.js, RESTful APIs, and creating SPAs with Angular.js. During lab time and the final project, I assisted students in debugging their code and ensured that they understood the material. I also graded assignments and provided constructive feedback to help students improve their skills.

EDUCATION

Code Fellows

Certificate in Advanced Full-Stack Javascript Development — September 2016