

Andy Roche | Staff Software Engineer

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SKILLS

Apps: Python (Flask, Django), Go, JavaScript (React), TypeScript, C# (Unity)
Data: Python (Spark, Airflow, Numpy), SQL (Postgres, MySQL)
Systems: Kubernetes, Docker, AWS, Linux, Git, Terraform, Ansible

EXPERIENCE

Recharge Payments **January 2020 - Present**
Staff Software Engineer *Full Remote*

- Led project to scale and maintain a contractor-built PoC for the new Shopify checkout integration. System is now responsible for over \$1m daily in subscription transaction processing and operates under a 0.05% error rate.
- Designed the transition plan for a business logic and schema change from a “one payment method per customer” model to a “multiple payment methods” design.
- Created tool to validate and process bulk operations in parallel from CSVs, used in every migration of merchants into our system from any other provider.

Sidecar Interactive **September 2017 - December 2019**
Senior Software Engineer *Philadelphia, PA*

- Led rotating team of 3-5 SREs to handle monitoring, triage, and reliability updates.
- Developed graph optimization microservice to create Google Ad structures based on a product feed and past ad performance.
- Migrated a feed processing service from 8 EC2 servers to Kubernetes. Reduced overall costs of the system by 80% with autoscaling and demand response.

PwC **August 2014 - September 2017**
Software Developer / Senior Associate *Philadelphia, PA*

- Led development of a data extraction desktop application, which lets employees migrate data from client ERPs to encrypted SQLite files. Used at over 100 clients to replace manual processes, saving thousands of work hours each year.
- Built a web application that lets employees audit client data from SAP and Oracle directly, creating accountant-friendly Excel workbooks with the results.
- Created ETL infrastructure for a solar energy startup to send over one thousand welcome emails and gift cards to new customers each month.

PwC **June 2013 - August 2013**
Data Solutions Intern *Philadelphia, PA*

- Consulted on and developed business reporting automation for a home security startup using SQL, Tableau, and Excel VBA.

Lockheed Martin **May 2012 - September 2012**
Software Development Intern *Valley Forge, PA*

- Led 3 interns to develop an internal mobile web app for the employee directory

EDUCATION

Temple University **August 2010 - May 2014**
Bachelors - Information Systems / Marketing - 3.97 GPA *Philadelphia, PA*

- Graduated top of class with the 2014 MIS Student Achievement award
- First place in the 2012 AIS mobile app development competition

PROJECTS

- ASCII Tabs - <https://www.asciitabs.com/> - Tablature generation website written in Go
- Wiki Table Scrape - <https://github.com/rocheio/wiki-table-scrape> - HTML table parser