Ryan Carlson

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Professional Experience

Beekeeper
Zürich, Switzerland

Senior Software Engineer, Data Team (Jan. 2020 – present)
Software Engineer, Data Team (May 2019 – Jan. 2020)

- Redesigned ETL workflow using Airflow and Google Kubernetes Engine (GKE), enabling rapid development of new ETL processes – time to develop dropped from days to hours.
- Overhauled Data Warehouse events pipeline, reducing engineering overhead required to implement product tracking and cutting Redshift user query times in half.
- Introduced new tool (dbt) to orchestrate model-building and test data validity, decreasing data-quality incidents to zero.
- Conducted Looker trainings for 100 employees to support a data-driven culture throughout the company.
- Served as ombudsperson for interviewing process on behalf of engineers, initiating improvements along pipeline and designing new evaluation tasks.

Software Engineer (Sept. 2017 – May 2019)

- Designed and built Java microservice to help securely deliver sensitive documents to our users, deployed using Kubernetes, which expanded operational use cases for our product.
- Designed and implemented VueJS webapp with Dropwizard backend to help customers contact their employees during emergencies, further bolstering operational use cases.
- Supervised external development of integrations, leading to higher throughput of marketplace apps.

Carnegie Learning
Pittsburgh, PA

Research Programmer (Feb. 2014 – Aug. 2017)

- Designed and implemented AngularJS tool with a Django backend allowing non-technical content designers to author computer-driven math tutors. Led to five-fold increase in content output.
- Designed and implemented highly configurable iPad game framework to help develop students' number fluency. Conducted field studies and used fine-grained behavior tracking to test game efficacy.
- Wrote and edited grant proposals for the research department, communicating complex & technical topics to stakeholders.

Google
Mountain View, CA

Software Engineering Intern, Google Maps for Android (May – Aug. 2013)

- Created framework to enhance benchmark reliability, making tests network-independent.
- Improved Places Pages, offering user additional details about a business.

Safaba Translation Solutions
Pittsburgh, PA

Software Engineer (Nov. 2011 – Dec. 2013)

- Built machine translation systems customized to client demands.
- Analyzed translation quality and generated fixes to improve our engines.
- Developed SSL-encrypted translation server used by our clients, ensuring secure data transfer.

Education

Language Technologies Institute, Carnegie Mellon University, Pittsburgh, PA (2011 - 2013)
    M.S. in Language Technologies.

Swarthmore College, Swarthmore, PA (2007 - 2011)
    B.A. in Computer Science, Minor in Cognitive Science. Graduated with Honors.

Skills

Computer Languages *(Proficient)* Python, Java, JavaScript, PostgreSQL, HTML, CSS, TypeScript, Bash; *(Familiar)* C++, C, Objective-C, R, Lisp (CL/Scheme).
(My Favorite) Tools & Technologies dbt, Looker, Redshift, Redshift Spectrum, S3, Airflow, Docker + Docker Compose, Kubernetes, Git, IntelliJ, PyCharm, Vim, GIMP.