

Anthony Todesco

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Employment

Reach, Senior Software Engineer & Team Lead, Redwood City, CA **April 2022 – August 2024**

- Led the design and development of a new message processing cloud application enabling automatic reassignment of power targets between power routers. The application uses a PostgreSQL DB to maintain device state and data and RabbitMQ to publish and consume messages to/from power routers.
- Developed a centralized configuration management system for power routers with an AWS-hosted HTTP API and client-side sync, ensuring schema validation and real-time sync status.
- Built and maintained Reach's Kubernetes cluster in AWS using the GitOps model to enable CI/CD pipelines.
- Designed and developed an over-the-air update system for power routers.
- Collaborated with electrical and firmware engineers to deliver prototypes for customer demonstrations including multi-stage power optimization and human safety systems.
- Collaborated with other team leads to design and architect software system changes from product requirement documents for Reach's first full product, translating these requirements into specific engineering tasks for the software team to execute.

Amazon, Software Development Engineer, Cambridge, MA/Sunnyvale, CA **April 2019 – April 2022**

- Developed a process to calculate "ground truth" ASR metrics, enhancing Alexa Speech leadership's ability to make data driven decisions on major program rollouts.
- Created a metrics database for Alexa Speech Engines, processing and managing over 1,000 TB of data for troubleshooting and reporting.
- Designed an ETL system to aggregate business metrics and automate reporting in Excel and AWS Quicksight.
- Automated management of 3,500+ alarms, reducing false alarms by 64%.
- Mentored an intern, leading to a successful full-time offer.

Amazon, Devops Engineer, Seattle, WA **July 2017 – April 2019**

- Led a campaign to improve software deployment health, reducing high-severity issues by 30% across the Amazon Last Mile organization.
- Developed Java tools for generating reports and migrating database records across AWS regions.
- Supported Amazon delivery launch at 160 Whole Foods sites, managing service configurations and forecasting models.

Raytheon, Software Engineer II, Aurora, CO **June 2015 – June 2017**

- Implemented a Chef cookbook development pipeline, automating unit/integration tests and nightly releases.
- Created a Ruby program to generate Chef cookbooks from engineering documents, cutting generation time from 2 days to under a minute.
- Led automation efforts to reduce environment build time from 3-4 weeks to 3-4 days.

Education

Georgia Institute of Technology, Atlanta, GA **September 2017 – December 2020**

- M.S. Computer Science, Machine Learning specialization.
- Relevant Coursework: Computer Vision, Machine Learning, Reinforcement Learning, Graduate Algorithms, Human-Computer Interaction, Data & Visual Analytics.

Bowdoin College, Brunswick, ME **September 2011 – May 2015**

- B.A. Computer Science, Mathematics minor.

Technical Skills

- **Languages:** Python, Rust, Java, Ruby
- **Databases:** PostgreSQL, SQLite
- **Cloud platforms:** AWS (EC2, S3, EKS, ELB, Lambda, IAM, Athena, Glue), DigitalOcean (Droplets)
- **DevOps & CI/CD tools:** Docker, Kubernetes, AWS CloudFormation, AWS CDK, Jenkins, CircleCI, Chef
- **Messaging:** RabbitMQ, ZeroMQ, AWS SQS, AWS SNS
- **Monitoring & Logging:** Prometheus, Grafana, AWS CloudWatch, AWS Quicksight