

TOM RASMUSSEN

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WORK EXPERIENCE

- Nov 2022 – Present **Graphite** – Senior Software Engineer
- Built a webhook service to ingest updates from upstream dependencies without polling.
 - Added a Stripe integration and billing logic for charging new customers.
- July 2021 – Nov 2022 **Copia Automation** – Senior Software Engineer
- Led development and release of DeviceLink, a tool for tracking factory automation code.
 - Grew a team to six developers and led the project planning, execution, and delivery.
 - Monetized the product by adding in-app free trial and checkout flow.
 - Added SSO feature to unblock revenue from enterprise customers.
- July 2019 – July 2021 **Amazon** – Software Development Engineer II
- Contributed to the AWS AI computer vision data platform by developing human ground truth image and video annotation workflows.
 - Built a product search feature using AWS Elasticsearch which saved \$250k of infrastructure billing annually.
 - Developed a load testing utility in AWS that was used to fix a recurring failure of a real-time stream ingestion and aggregation application operating at up to 2000 TPS.
- July 2017 – May 2019 **Blue Origin** – Mechanical Engineer → Software Engineer
- Developed tools in MATLAB to model and optimize rocket subsystems including landing legs, auxiliary power unit, thrust vector control, and hydraulic systems.
 - Led the development of a hydraulic simulation of a reusable rocket booster in MATLAB.
 - Designed and programmed a high-performance data acquisition (DAQ) system with 100+ channels of I/O to support development testing.

EDUCATION

- 2013 – 2017 **Columbia University** – New York, NY
- B.S. in Mechanical Engineering, minor in Computer Science
- Honors: *magna cum laude* (GPA 3.92)

SKILLS

- Skills
- Full-stack software development and systems architecture.
 - Hardware development including mechanical, electrical, and hydraulic design.
 - Engineering leadership including project planning and coordination with design and product teams.
- Technologies
- Infrastructure: Docker, ECS, Kubernetes, Lambda, Postgres, DynamoDB, Redshift, EC2.
 - Languages: TypeScript/Node, Java, C++, Python, Go, React, C++, SQL, MATLAB.
 - Other: CAD, CAM, FEA, Labview, 3D printing.
- Interests
- Robotics, computer vision, and computer graphics.
 - Industrial automation and manufacturing.