

Andrew Doss

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EXPERIENCE

bit.io Inc.

L5 Software Engineer

Dec 2021 – Current

L5 Data Scientist

May 2021 – Nov 2021

- Developed controllers (gRPC/Go) and cron jobs (Python) to perform “automated DBA” activities for new serverless Postgres product as part of 8-person team serving >30k databases.
- Rewrote user-data ingestion components to trim redundant data structures, use performant C libraries, and fix several format inference bugs resulting in a 3x reduction in memory consumption, 5x increase in throughput, and >70% reduction in failed job rates.
- Built and updated several internal APIs (HTTP/Django) and cron jobs for product metadata management, custom user auth, and a new, usage-based invoicing system w/ Stripe integration.
- Overhauled server-side product instrumentation for improved quality and >75% cost reduction.

PACCAR Inc.

Senior Data Scientist

Jun 2019 – May 2021

- Built and deployed production machine-learning-backed API for custom discount guidelines resulting in 25% error reduction and >\$1M annual recurring savings compared to legacy tool.
- Explored and cleaned large-scale truck telematics data to develop survival/classification models that enabled proactive truck maintenance and estimated warranty savings >\$1M.

Boeing

Propulsion Engineer III

Jul 2015 – May 2018

Propulsion Engineer II

Oct 2012 – Jul 2015

Propulsion Engineer I

Jun 2011 – Oct 2012

- Co-invented trade-secret wing overpressure protection system in current military use.
- Led modeling, architecture, and test of several novel propulsion systems for a military aircraft.

SKILLS

- Python (Django, threading, pandas, NumPy, scikit-learn), SQL, Go, C, JavaScript, Git, Tableau, Mixpanel, Segment, Stripe, Postgres, Kubernetes, DataDog, GCP, gRPC, HTTP.

EDUCATION

Georgia Institute of Technology

MS, Computer Science, Computing Systems Track

Jan 2023 – Expected Dec 2024

MS, Analytics, GPA 4.0/4.0, Computational Data Analytics Track

Jan 2018 – August 2019

University of Michigan

BSE, Mechanical Engineering, GPA 3.98/4.00, Summa Cum Laude

Sep 2007 – May 2011