Bobby Wagner

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EXPERIENCE

Augustus Intelligence - Engineering Lead, Infrastructure

Mar. 2020 - Oct. 2020

Management: Managed team of 4 engineers building a self-serve infrastructure platform on Kubernetes, ArgoCD, and Circle CI Hiring: Replaced team of embedded consultants with full time employees, managing knowledge transfer through high staff turnover Highest Technical Standards: Led architecture guild to align multiple product teams on company wide architectural decisions Incident Response: Drove company wide incident response process, reducing time to acknowledge from days to minutes

Augustus Intelligence - Software Engineer

Oct. 2019 - Mar. 2020

Technical Interviewing: Designed and implemented technical interviewing standards used to interview over 50 candidates **Technical Leadership:** Led proof of concept for an analytics platform for on-prem devices using Kafka, DynamoDB, and Faust **Networking:** Redesigned cloud network using AWS Transit Gateways so that all internal traffic was kept private

Augustus Intelligence - Research Engineer

May 2019 - Oct. 2019

Federated Learning: Developed tooling to train models on data stored on multiple machines using Kubernetes and PySyft Object Detection: Improved and deployed object detection models for use with client facing systems using Pytorch and Klein

Yelp - Software Engineering Intern

May 2018 - Aug. 2018

Distributed Processing: Migrated batch algorithm to Apache Spark, speeding it up to process 3 billion rows in under 30 minutes Online Machine Learning: Deployed XGBoost model which serves over 300 queries per second on geospatial data

Pandata - Data Engineering Intern

Jan. 2018 - May. 2018

Cloud Data Storage: Led migration of data storage for use with natural language models to Google Cloud Storage Client Facing: Performed and automated adhoc data analysis to help non-technical clients with data driven decision making

OPEN SOURCE PROJECTS

OpenMined - Release Manager and Distributed Computation Project Lead

Aug. 2017 - Nov. 2019

Multiparty Computation: Extended PyTorch to support operations on secure data using multiparty computation Code Quality: Automated code quality tools to ease development and code review for an internationally distributed team Education: Maintained list of relevant technologies at https://github.com/OpenMined/private-ai-resources

Syncrony - Case Western Reserve University Best Senior Project 2019

Aug. 2018 - Dec. 2018

Database Design: Designed and implemented schema for real-time music synchronization using Django and Postgresql **Developer Tooling:** Created tooling for automated code formatting and testing to ease development on a cross functional team

EDUCATION

Case Western Reserve University - Bachelor of Science in Computer Science

Aug. 2015 - Jan. 2019

Grade Point Average: 3.30

Selected Relevant Courses: Machine Learning, Advanced Algorithms, OS and Concurrent Programming, Data Privacy

Teaching Assistant: Algorithms

SELECTED PUBLICATIONS

A Generic Framework for Privacy Preserving Deep Learning - NIPS Privacy Preserving Machine Learning Workshop 2018 Theo Ryffel, Andrew Trask, Morten Dahl, Bobby Wagner, Jason Mancuso, Daniel Rueckert and Jonathan Passerat-Palmbach

Invited Talks

NASA Machine Learning Forum - Dealing With Other People's Data: When to use different types of PPML

Mar. 25, 2019

Cleveland Artificial Intelligence Group - Introduction to OpenMined

Feb. 15, 2018

Cleveland Artificial Intelligence Group - Graph Neural Networks

Sep. 20, 2018