

Brian A. Heckman

TECHNICAL EXPERIENCE

Machine Learning Engineer	Vanguard	July 2019 – Present
<ul style="list-style-type: none">• Developed API for propensity scoring model capable of handling millions of requests per day• Designed API for fund comparison scoring model resulting over 10x performance improvement over prior version and savings of \$200,000 yearly for Vanguard• Deployed, built, and performance tested production APIs for 14 NLP models• Python, Java, Postgres, LocustIO, SageMaker, ECS, Docker		
Software Engineer	GE Digital	June 2016 – July 2019
<ul style="list-style-type: none">• Introduced backend prototype for new algorithm to predict downtime for heavy machinery• Built batch processing pipelines integrating 3rd party marketing systems with marketing data lake• Implemented Apache Airflow graph scheduler into Predix Insights Service (Spark-as-a-Service)• Transitioned on-prem monolithic anomaly detection application to cloud based microservices platform helping scale asset monitoring capabilities by 10x• Java, Python, C#, Apache Airflow, Spring, Postgres, Tableau		

EDUCATION

M.S. Computer Science	Georgia Institute of Technology	2020 – Present
B.S. Computer Science (with Honors)	Syracuse University	2013 – 2017

PROJECTS

Halos Mobile Tour App	(github.com/baheckman)
(Android SDK, Java, Python, Flask, MongoDB)	
<ul style="list-style-type: none">• Built REST web service with Flask micro-framework to communicate with Android and iOS apps• Utilized Google Places and Maps API to asynchronously get list of attractions near current location and give directions to each landmark in sequential order• Designed Android User Interface for entire application	

PROFESSIONAL SKILLS

Languages: Java, Python, R, SQL

Stacks and Frameworks: Flask, FastAPI, LocustIO, Postgres, AWS

HOBBY SKILLS

Languages: Golang, Haskell, JavaScript

Stacks and Frameworks: Vue, Vuex