

# Aashin Shazar

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## EXPERIENCE

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### Senior Software Engineer

May, 2021 - Present

Bloomberg LP | New York City, NY

- Engineered a company-wide internal CRM platform to identify data coverage gaps; transitioned the project from a single-team pilot to a global standard for customer success and outreach optimization.
- Productionized and managed a mission-critical Kafka event platform (1M+ daily events), executing a full architectural overhaul to eliminate systemic failure points and ensure 100% stability at launch.
- Created a Python data pipeline to automate data retrieval from analyst research files, accelerating product discovery and enhancing content discoverability opportunities for [BloombergGPT](#), [DSX](#), [ASKB](#) and others.
- Architected scalable data pipelines to migrate 30M+ legacy files, developing integrated BI dashboards to monitor ingestion KPIs and automate error diagnostics for real-time system health.
- Championed internal developer advocacy initiatives, establishing engineering best practices and AI-assisted workflows to accelerate developer velocity and enhance system reliability across engineering.

### Research Assistant

Feb. 2020 – May, 2021

Intelligent Computing and Embedded Systems Lab | San Francisco, CA

- [Research published at the IEEE Engineering in Medicine and Biology Society Conference.](#)
- Transitioned a rapid sensor fault recovery machine learning algorithm from MATLAB to Python, optimizing its implementation runtime with a 98% gain.
- Developed a data science engineering tool to acquire, pipeline, and analyze high-density time series data, significantly expediting the data collection process and enhancing result interpretation.
- Designed and implemented new features for the machine learning algorithm based on insights from research papers, leading to a boost in classifier accuracy from 20% to 93%.

### Equipment Engineering Intern

May, 2017 - Aug. 2018

Tesla | San Francisco, CA

- Prototyped a machine learning application to identify defective crash safety components with projected cost savings of over \$3.75M.
- Designed and implemented a Python-based data pipeline to integrate equipment lines into the centralized factory software, enabling real-time data aggregation and analysis.
- Created live dashboards to visualize KPIs and automated report generation using SQL, enabling real-time tracking of factory output and quality metrics.

## EDUCATION

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**San Francisco State University** | Bachelor of Science in Computer Engineering

Dec. 2020

- Activities: Vice President of Alpha Sigma Phi

**Udacity** | Machine Learning Engineer Nanodegree Certificate

Oct. 2018

- Capstone: Application of Convolutional Neural Networks to Identify Defective Automotive Components

## TECHNICAL SKILLS

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**Languages & Frameworks:** Python, TypeScript, C/C++, SQL, MATLAB; React, Flask, SQLAlchemy, pytest

**AI, ML & Data Science:** JAX, TensorFlow, Keras, Scikit-learn, Ray, HyperOpt, NumPy, Pandas, SciPy, Matplotlib

**Infrastructure & Systems:** Kafka, Redis, PostgreSQL, AWS, Docker, CI/CD