

# Danil Merinov

445-444-0919 dm3544@drexel.edu

<https://www.linkedin.com/in/danil-merinov/> | <https://github.com/dan1lm>

## EDUCATION

---

### Drexel University

*Bachelor of Science in Computer Science*

*Bachelor of Science in Mechanical Engineering*

Coursework: Machine Learning, Artificial Intelligence, Data Structures, Software Architecture, Systems

Programming, Database Systems, Heat Transfer, Fluid Dynamics, Aerospace Structures, Power Plant Design

Philadelphia, PA

September 2019 – June 2024

Cumulative GPA: 3.41

## EXPERIENCE

---

### Macquarie Group

*Software Engineer Intern*

September 2023 – April 2024

Philadelphia, PA

- Designed and developed team's home page using Hugo, HTML and CSS, deployed to Bitbucket
- Worked on a password rotator, configured application load balancer using CloudFormation, wrote unit tests
- Produced Bash scripts for Fortify and BlackDuck code scanning, containerized the process using Docker
- Successfully migrated ETL-focused application from Pandas to Polars, achieving 500% processing speed increase

### Meusic

*Software Engineer Intern*

December 2022 – July 2023

Philadelphia, PA

- Designed and developed application's authentication and user functionalities, created automated endpoint testing
- Utilized Django Channels to create a chat feature that works with both iOS and web-based applications
- Containerized, deployed, and maintained an application using a reverse proxy, MySQL, and Docker

### Drexel University

*Undergraduate Researcher*

June 2022 – September 2022

Philadelphia, PA

- Utilized AutoCAD to create drawings of Mavic 2.0 drone, assisted with various tasks such as transformer assembly
- Generated comprehensive graphs and performed in-depth analysis of drone flight data using MATLAB and Pandas

### University of Pennsylvania

*Undergraduate Researcher*

March 2021 – November 2021

Philadelphia, PA

- Consolidated research on polymerizing fibrin gels, specifically normal stress of gels over respective time
- Studied viscoelastic properties of hydrogel based on fibrinogen and thrombin levels, calibrated rheometer daily
- Coauthored a published article: <https://www.sciencedirect.com/science/article/abs/pii/S1751616122002405>

## PROJECTS

---

### Ingesting 13G - Capstone Project with Bloomberg L.P.

- Developed Python scripts to efficiently retrieve, process, and store 13G documents into S3 and DynamoDB
- Leveraged AWS services such as API Gateway and Lambda to perform CRUD operations on document data
- Used AWS SageMaker for data labeling, trained a NER model for data point extraction with 98% success rate

### TuneLink - Split Sheets Generation Software

- Developed an automated CI/CD listing testing and deployment workflows with GitHub actions
- Used Spring Boot and MongoDB to architect APIs for seamless management of artists' songs and contributors

### Stonx - Stock Market Trading Simulator

- Developed programmatic UI using Swift and UIKit and utilized Starscream to connect to Alpaca API WebSocket
- Designed HTTP interface for network requests to APIs, implemented transactions functionality by utilizing Parse

### SoleMate - E-commerce Shopping Platform

- Created a shopping platform using Angular, Node.js, and Tailwind CSS, resulting in a user-friendly interface
- Implemented secure payment processing functionalities using Stripe, developed Flask APIs to handle transactions

## SKILLS

---

**Languages:** Python, Java, C, C++, Swift, SQL, JavaScript, TypeScript, HTML, CSS, Bash, MATLAB

**Tools:** React, Angular, Spring Boot, Django, Git, LaTeX, Docker, MySQL, PostgreSQL, MongoDB, Airflow, DBT