

# Leo Battalora

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## EDUCATION

Temple University, College of Engineering, Honors

**Bachelor of Science in Electrical Engineering**

Concentration in *Computer Engineering*

**Philadelphia, PA**

GPA: 4.00, Dean's List: 7/7

*Summa Cum Laude*

## HONORS AND AWARDS

2022 John Rumpf Award • 2022 First Honors in Electrical Engineering • 2021 Goldwater Scholar

## CERTIFICATIONS

AWS Developer (Associate)

May 2023

## PUBLICATIONS

Tzu-Hui Yu, Bo-Han Su, **Leo Chander Battalora**, Sin Liu, Yufeng Jane Tseng. (January 2022).

Ensemble modeling with machine learning and deep learning to provide interpretable generalized rules for classifying CNS drugs with high prediction power. *Briefings in Bioinformatics* (Volume 23, Issue 1). <https://doi.org/10.1093/bib/bbab377>

## RELEVANT EXPERIENCE

**JPMorgan Chase & Co.**

**Wilmington, DE**

Software Engineer II

January 2024 - Present

Software Engineer I

July 2022 - December 2023

- Team 1 (11 months): Developed and deployed five applications (batch jobs, services, and UIs) for Chase's automotive servicing modernization initiative into production (Java, React, Helm, EKS).
- Team 2 (9+ months): Provisioned cloud infrastructure for 50+ applications using Terraform with replication over nine environments (5 dev, 3 test, 1 prod). Leveraged AWS services such as ECS, EKS, RDS, S3, SQS, SNS, MSK, IAM, Route53, Lambda, and Secrets Manager.
- Led a major initiative to migrate pipelines for application and infrastructure deployments from a legacy Jenkins implementation to Spinnaker, resulting in over a 3x reduction in deployment times for all deployments in a project with over 100 engineers.
- Gave three technology presentations to 100 engineers in my org: CD using Spinnaker, Camunda Workflow Design & Development, Deploying Applications to ECS.

**JPMorgan Chase & Co.**

**Wilmington, DE**

Software Engineer Intern

June - August 2021

- Developed a dashboard which aggregated and persisted monitoring data from multiple sources for applications running in our private cloud.
- Tools/Skills: React, Spring Boot, Java, Splunk, Dynatrace

**Lockheed Martin**

**King of Prussia, PA**

Software Engineer Intern

June - September 2020

- Developed custom Slack apps for users in the firm-wide Slack to be able to report messages directly to HR (Tools/Skills: NodeJS, GitLab pipelines, and Cloud Foundry).

**Computational Molecular Design & Metabolics Lab (CMDM)**

**Taipei, Taiwan**

Machine Learning Researcher

February - December 2020

- Used various machine and deep learning techniques to achieve world-class predictivity and interpretability of CNS-activity models for drug discovery (DT, RF, SVM, GCN).
- Tools/Skills: Python, Scikit-Learn, Keras, Tensorflow, Google Colab

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## Neural Engineering Data Consortium (NEDC)

Philadelphia, PA

Lead Unix System Administrator

December 2019 - January 2021

- Managed the hardware and software for a 14-node HPC cluster for machine learning research.
- Tools/Skills: Slurm, Warewulf, ZFS, NFS, CentOS Linux, C, Python, compiling from source

## Temple University

Philadelphia, PA

Teaching Assistant for Engineering Computation I

August - December 2019

- Conducted labs and taught students C, C++, Linux, Python, Bash, and AWS Cloud9
- Managed student accounts and environment setup on an AWS EC2

## AIM Research Company

Hockessin, DE

Android Developer Intern

May - August 2019

- Developed an Android app and QR-code system to aid in hardware inventory management, reducing shipment processing times for technicians by 75%.
- Tools/Skills: Kotlin, Java, XML, external APIs, Angular

## Phase Sensitive Innovations

Newark, DE

Engineering Intern

June - August 2017

- 3D modeled, printed, and programmed an automated zoom for a telescope to enable precise and replicable zoom settings for military image collection. <https://youtu.be/nyfhsAGGoJ8>
- Tools/Skills: Autodesk Inventor, Arduino, C, Stratasys F370

## SKILLS

**Software/Technologies:** Linux, Git, Docker, Kubernetes, Spring Boot, React, Next.js, Vue.js, NuxtJS, Tailwind CSS, Machine Learning (SVM, DT, RF), Deep Learning (GCN), RESTful API, GraphQL, Autodesk Inventor, Autodesk Revit, SolidWorks, Windows, GCP, AWS (EKS, ECS, EC2, RDS, Aurora, ACM, KMS, SQS, SNS, MSK, IAM)

**Programming:** C, C++, CUDA, Go, Python, Kotlin, Java, Javascript, Terraform, Bash, POSIX Shell, HTML/CSS, MATLAB, AVR Assembly, MIPS, Verilog

**Languages:** German, Chinese (Mandarin)