Leo Battalora

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EDUCATION

Temple University, College of Engineering, Honors   **Philadelphia, PA**
Bachelor of Science in Electrical Engineering   May 2022
GPA: 4.00, *Summa Cum Laude,* Concentration in Computer Engineering

WORK EXPERIENCE

JPMorgan Chase & Co.   **Wilmington, DE**
Software Engineer (Full Stack)   July 2022 - present

- Building batch jobs and full stack services in AWS to manage automobile loan and lease lifecycles.
- Technologies used: Jenkins, Java (SpringBoot), AWS (EKS, RDS, SQS, S3), React, Jenkins, Control-M, Kafka, Splunk.

JPMorgan Chase & Co.   **Wilmington, DE**
Software Engineering Intern (Full Stack)   June - August 2021

- Created an SQL caching server in Spring Boot which aggregated deployment information, monitoring data, and system logs for all company deployments to their internal private cloud from internal monitoring services including Splunk, Dynatrace, Satori (JPM specific), and Stratus (JPM specific).
- Designed and constructed a React-based UI which interfaced with the caching server to serve users a customizable dashboard of deployments that they are interested in viewing.

Lockheed Martin   **King of Prussia, PA**
Software Engineering Intern (Backend)   June - September 2020

- Developed several custom Slack apps using NodeJS, including one to enable users to report offensive and inappropriate messages directly to HR from within the Slack UI. The apps would listen for events from the Slack Events API then programmatically generate emails (to HR) and call the Slack Web API to interface with users (serving custom modals and generating toasts and messages).
- Implemented a GitLab Pipeline which would test and deploy the apps to Pivotal Cloud Foundry.

Computational Molecular Design & Metabolics Lab (CMDM)   **Taipei, Taiwan**
Machine Learning Researcher   February - December 2020

- Reconstructed and validated machine and deep learning experiments which successfully improved predictivity and interpretability of DL models for CNS drug discovery.

Neural Engineering Data Consortium (NEDC)   **Philadelphia, PA**
Lead Unix System Administrator   December 2019 - January 2021

- Managed a university HPC cluster consisting of 14-compute nodes and over 2 petabytes of HIPAA sensitive information using tools and technologies such as Slurm, Warewulf, ZFS, Anaconda, CentOS Linux, compiling from source and shell scripting.
- Lead weekly Agile meetings, trained new admins, and troubleshooted ML experiments with graduate students.

AWARDS

First Honors in Electrical Engineering   2022

Selected from my graduating College of Electrical and Computer Engineering class at Temple University for finishing with the highest cumulative grade point average.

John L. Rumpf Award   2022

Selected from my graduating College of Engineering class at Temple University for "demonstrating an outstanding understanding of the concepts of engineering, a strong development of character and ethical behavior, and the greatest potential for success in the profession of engineering".

Goldwater Scholar   2021

Selected as one of 408 college students from a pool of over 5,000 college sophomores and juniors across the United States for "demonstrating a passion for doing research and exhibiting the creative spark that will make [me] a leader in [my] field".

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

SKILLS

DevOps: GitHub Actions, Docker, Git, Google Cloud Platform (Compute Engine, Cloud Run, VPC Network, Artifact Registry, Kubernetes Engine), Amazon Web Services (EC2, RDS, S3, Cloud9, RoboMaker), RESTful Services, GraphQL, Spring Boot

Machine Learning: Scikit-learn (Support Vector Machine, Decision Tree, Random Forest), Tensorflow (Graph Convolutional Network)

System Administration: Linux, Slurm, Warewulf, ZFS, Anaconda, CentOS/RHEL

UI/UX: React, Next.js, Vue.js, NuxtJS, Tailwind CSS

Testing: Jest, Mockito, JUnit, Cucumber

Computer Languages: C, C++, CUDA, Go, Python, Kotlin (Android), Java, Javascript, Deno, NodeJS, Bash, HTML/CSS, MATLAB, AVR Assembly, MIPS, Verilog

Human Languages: German, Chinese (Mandarin)