Christopher K. Schmitt

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Experience

PRESCO, Inc. Woodbridge, CT
Software Engineer Nov 2023 — Present

- Developed firmware for a number of mission-critical embedded systems in the biomed, defense, and consumer domains.
- Authored full-stack, bluetooth-enabled mobile applications.
- Interfaced directly with clients to determine application needs and requirements.

BioXcel Therapeutics New Haven, CT
Software Data Engineer May 2022 — Nov 2023

- Implemented machine learning systems for predicting target binding affinity for potential compounds.
- Developed tools for constructing knowledge graphs in the drug re-purposing domain.
- Used a variety of AI techniques for link prediction and compound property prediction.

TheCoderSchool Farmington, CT
Instructor Oct 2018 — May 2022

- Taught computer programming and computer science concepts
- Developed curricula for teaching foundational concepts in computing and robotics

Education

Central Connecticut State University New Britain, CT
BS Computer Science – Honors Sep 2018 — Jun 2022
Minors in Mathematics, History, and Psychology

Skills

Tools:	Git, GH Actions, GCP
Systems Programming:	Rust, C, C++
Machine Learning:	Python, Jax, PyTorch, TensorFlow
Fullstack Development:	JavaScript, TypeScript, React
Databases:	PostgreSQL, MySQL, Neo4J
MCUs:	STM32, ESP32, AVR
Other:	Haskell, LaTeX, Java

Projects

Twitter-RNN — *TensorFlow, JavaScript* https://github.com/shmishtopher/Twitter-RNN
An artificial neural network leveraging BEAM search to generate Tweets indistinguishable to those composed by humans.

CoinBlock — *JavaScript* https://github.com/shmishtopher/CoinBlock
An extension for detecting and blocking browser-based crypto mining attacks with thousands of active users.

pneumonia-CNN — *TensorFlow, JavaScript* https://github.com/shmishtopher/pneumonia-CNN
A deep convolutional network for diagnosing pneumonia with a high degree of accuracy.

Research

Dark Web Text Classification with RNNs *CCSU* 2021 — 2022
Lead investigator studying and developing unsupervised text classification techniques for analyzing dark web documents. CCSCNE 2022 Finalist.

De Bruijn Graph Genome Assembly Acceleration *CCSU* 2019 — 2020
Lead investigator studying optimal k-mer length for probabilistic genome Assembly using De Bruijn graphs. Submitted to the Central Undergraduate Research Conference.