Christopher K. Schmitt

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Experience

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

- 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 *GPA: 3.48* 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
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.

VAU - The Vocaloid Archive Utility — *Rust* https://github.com/shmishtopher/VAU
An application for extracting and recompiling the proprietary voicebank format.

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.

Claims Management System — *React, Express, JWT Authentication*
A tool developed for The Hartford insurance corporation to process claims. Build with a small team of four other developers leveraging Agile processes.

FreeAgentNow — *Express, JWT Authentication*
A social media platform targeted at student athletes. Built for a startup in the UConn TIP program with a team of four other developers leveraging Agile processes.

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.