

# Christopher K. Schmitt

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## EDUCATION

### Central Connecticut State University

BS Computer Science – Honors *GPA: 3.48*

Minors in Mathematics, History, and Psychology

New Britain, CT

Sep 2018 — Jun 2022

## EXPERIENCE

### BioXcel Therapeutics

*Software Data Engineer*

New Haven, CT

May 2022 — Present

- Developed tools for constructing knowledge graphs in the drug repurposing domain.
- Used a variety of AI techniques for link prediction and compound property prediction.

### TheCoderSchool

*Instructor*

Farmington, CT

Oct 2018 — May 2022

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

## SKILLS

Language Fluency:	American English, German
Development Tools:	Git, Docker, Google Cloud, AWS
Systems Programming:	Rust, C, MIPS Assembler
Machine Learning:	Python, Jax, PyTorch, TensorFlow
Fullstack Web Development:	JavaScript, Typescript, Node.js, React, Mongo
Other proficient languages:	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. Built 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.