

Simon Chervenak

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<https://github.com/Innoviox>
<https://innoviox.github.io/>

Education

University of Maryland / BS in Computer Science (ACES), GPA: 3.944 Aug 2020 - May 2024

- Computer Science: Game Programming, Introduction to Compilers, Data Structures, NLP
- Mathematics: Multivariable Calculus, Differential Equations, Discrete Mathematics, Abstract Algebra
- Linguistics: Syntax I, Syntax II, Phonology I, Psycholinguistics
- **Banneker-Key scholarship**, Northrop Grumman scholarship, NASA scholarship

Hochschule Munich University of Applied Sciences March 2023 - August 2023

- Computer Science: Software Engineering, Sustainable AI, Big Data Analytics
- Linguistics: B2 German

Experience

Podsie @ Teaching Lab / Prompt Designer, Software Contractor Jan - February 2024

remote <https://www.podsie.org/>

- Built a pipeline to benchmark the ability of LLMs to generate tests based on AP curricula
- Developed a robust SQL database schema from scratch
- Created a Python backend that seamlessly integrated with a React frontend component

United Kronos Group / Software Developer Intern May - August 2022

Lowell MA (remote) <https://ukg.com>

- Created a CI/CD pipeline for mobile applications
- Designed UI elements using Angular and Cordova
- Made bash and python scripts to speed up development of custom frameworks

Reinventing Geospatial Incorporated / Software Developer Intern May - August 2021, Jan '23

Fairfax VA <https://rgi-corp.com/>

- Developed UI in an agile setting with team size ranging from 4 to 12
- Fixed and documented bugs and crashes in a C# environment
- Implemented animations, progress bars, and cleaner UI elements

UMD CNL Lab / Summer Intern, Junior Developer, Researcher June 2019 - Present

<https://www.colinphillips.net/language-science/cnl-lab/>

- Developed several experiments to test hypotheses about the Approximate Number System
- Worked with graduate students and professors at UMD and Johns Hopkins
- Created and maintained a backend server in NodeJS and a frontend in HTML5
- Examined data with Python and R and presented findings in a paper
- Researched aphasia via lesioning neural models for my senior thesis

Technaplex / Co-Founder and Developer August 2018 - Present

<https://technaplex.com/>

- Created apps for iOS devices using modern UI tools such as SwiftUI
 - QuizDB: flashcard app to help train for QuizBowl competitions
 - Tak: a 3D checkers-like game developed by Patrick Rothfuss
 - Saga Reader (in development): an ebook app with easy controls

Skills

- Python (including Django, Tensorflow, Numpy, Flask, Qt, Pandas) Fluent
- Swift (including SpriteKit, SceneKit, SwiftUI) Fluent
- HTML5, React, NextJS, Typescript, NodeJS Fluent
- Unix, Bash, Git Fluent
- Java (including Android development) Proficient
- Rust, C#, Angular, Cordova Proficient
- Go, SQL, Matlab, Scala Familiar

Software Projects

gaddag-rust / Scrabble AI and Visualizer

October 2019 - April 2020

<https://github.com/Innoviox/gaddag-rust/>

- Developed an artificial intelligence that rivals top Scrabble AIs
- Handmade a UI using native tools for both graphical and text-based gameplay

is-urail-cheaper / Travel Planner

September 2023

<https://github.com/Innoviox/is-urail-cheaper>

- Created an API in python that pulls from multiple sources to get live pricing information for trains, planes, and buses
- Designed a frontend in React and NextJS to integrate this information and allow for easy searching and planning

Awards

- **YHack 2020** Overall Prize
- **IvyHacks 2020** Best Remote Education & Work Hack (678 participants)
- **ACES: Advanced Cybersecurity Experience for Students at UMD**
- **Northrop Grumman COVID-19 AI UMD Student Challenge 2021** First Place
- **Banneker-Key Scholarship**