Alexander Davison

Stony Brook, NY | alex@bookmark.org | (919) 819-7153 | alexdavison.xyz

EDUCATION

Stony Brook University Stony Brook, New York Bachelor of Science in Mathematics, Minor in Computer Science Expected May 2028 Dean's List, Presidential Merit Scholarship **Relevant Coursework:** • CSE 214: Data Structures • CSE 216: Programming Abstractions • CSE 371: Logic • MAT 303: Calculus IV with Applications • MAT 310: Linear Algebra • MAT 313: Abstract Algebra • MAT 324: Real Analysis Roger Williams University – Distance Calculus, Calculus III 2022-23 Cary Christian School - Dean's List with Distinction 2021-24 AlphaStar Academy - USACO Silver 2016-17 SAT - 1480 twice, 1490 superscore AP Scholar with Distinction - AP Calculus BC, AP Computer Science A, AP Statistics, AP Physics, AP Biology, AP Environmental Science **TECHNICAL SKILLS** • Languages: Python, C/C++, Rust, OCaml, HTML/JS, SQL • Tools: NumPy, Matplotlib, PyTorch, Git • Skills: Scripting, Web Scraping, Machine Learning, NLP, Mathematical Modeling, Data Visualization, Numerical Analysis, Formal Verification, Algorithm Design RELEVANT EXPERIENCE **Thales Academy** Cary, North Carolina Software Developer (Contracted) June 2024 – August 2024 • Developed a web app in HTML/JS for Thales Academy teachers to automate the generation of math worksheet PDFs **PROJECTS Personal Projects** • Conway's Game of Life 2018 ► Interactive Conway's Game of Life simulation in Python/PyGame • Bezier Curve 2019

► Mandelbrot Set fractal image and video rendering in Python, then reimplemented in C++

2020

► Interactive Bezier curve simulation in Python/PyGame

Mandelbrot Set

Fort-end Rubik's cube solver for the EOcross step, using a novel algorithm Solving algorithm later adopted by the CrystalCube project, https://crystalcuber.com/ ChessB Mobile Mobile front-end interface for exploring chess openings in HTML/JS Statistics and evaluation data pulled from chessdb.cn and lichess.org APIs Original codebase that the ChessPath project was later built on, https://chesspath.pro/ Weiqi Engine Go board game Monte Carlo tree search engine in C++ for expression evaluation and reduction Lambda Calculus Untyped lambda calculus compiler in C++ Rubik's Cube Rendering 3D Rubik's Cube renderer in C NouTube Scraper Python scripts to automate scraping of YouTube channels and all of their videos NILP processing on each video and automated extraction of named entities STUDENT ENGAGEMENT Hackathons Packathyu 2025 Put together and led a four-person team Led brainstorming and project planning sessions Developed front-end user profile UI in Pythonstreamlit Developed back-end database support using Python/sqlite3 Merged all contributors' work in Git to produce finalized project United States of America Computing Olympiad (USACO) Competed in Bronze division DataAnnotation 2023-25 Competed in Bronze division DataAnnotation 2023-25 Worn 1* place at 2020 US National Junior Chess Congress at Santa Clara for my ratin division Competitive Chess Won 1* place at 2020 US National Junior Chess Congress at Santa Clara for my ratin division Represented the Stony Brook chess team against Yale at Yale Invitational Chess Tournament 2024 Chess Club, Cary Christian School chess club as president	 Sierpinski Triangle Sierpinski Triangle fractal image rendering in Python 	2020
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