Kai Davidson

484-752-5376 | kai@davidson.to | Media, PA
github.com/kalxed

Education

Double Major in Computer Science and Bioinformatics (Bachelor of Science) — 4.0 GPA

Worcester Polytechnic Institute, Worcester, MA

Expected Graduation: May 2026

Relevant Coursework: Systems Programming Concepts, Accelerated Object-Oriented Design Concepts, Discrete Math, Algorithms, Computer Graphics, Database Systems I, Computer Networks

Awards/Honors: Dean's List Fall 2022, Spring 2023

Activities/Organizations: Men's Varsity Crew Team

Friends' Central School — Graduated June 2022 — 4.3 Weighted GPA

Work Experience

Intern, Market Acumen — Media, PA
Summer 2020, Summer 2023
- Designed React front end for password safe application
- Headed Slack integration with PHP
- Developed Pipelines with Bitbucket Source Control

Intern, BIGLIST Inc. — Media, PA
Summer 2018
- Created automated JavaScript browser testing code for website using Puppeteer
- Managed computer hardware inventory
- Built FreeBSD Computer and worked with Shell

Skills

Proficient in: Python, Javascript, C++, C, HTML, CSS, Java

Technologies: Puppeteer, Tweepy, Pandas, Numpy, NLTK, Tensorflow, React, Flask, Firebase, Node, Git, Bitbucket, Jira, SQLite, MySQL

Soft Skills: Interdisciplinary Collaboration, Project Organization, Time Management, Problem Solving, Graphic Design, Illustration, Writing, Note-Taking

Languages: English, French, German

Personal Projects

Personal Website — Present
Javascript | React | Next.js
Personal website to showcase projects.

Particle Simulator – 2022
Java | Swing
Architected particle simulator program to calculate collisions and end states.

Sudoku Solver – 2021
Python | Numpy | Seaborn
Solves Sudoku puzzles using percentages.

Twitter Bot — 2019
Python | Tweepy | NLTK
Bot that responds to tweets of specified users.

Activities

Elm Park Tutoring – 2022-2023
Tutored elementary schoolers in math and humanities weekly.

Coding Club — 2021-2022
Leader of database team for Flask website, aided peers with python coding, contributed to frontend & backend.

Math Modeling Club — 2019-2022
Researched mathematical models and competed in HiMCM competition, placed finalist 2019, honorable mention 2020.

Science Core Team — 2019-2022
Learned about Meteorology, Plant Evolution, and Aquatic Ecosystems.