David Durland

484-661-3223 | durland.david@gmail.com | www.linkedin.com/in/davidDland | daviddland.github.io

EDUCATION

Shippensburg University — Pennsylvania, USA
BS in Computer Science, Minor in Mathematics, GPA: 3.1 — *Graduation Fall 2025*
- Relevant Courses: Design and Analysis of Algorithms, Design Patterns, DBMS, Data Science, Discrete Math, Operating Systems, Network and Computer Security

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, C, R, MATLAB, LaTeX, HTML, CSS, SQL
Developer Tools: Git, VSCode, Visual Studio, Gitlab
Frameworks: PyTorch, Node, React, Express, Tailwind
Soft Skills: Organization, Problem Solving, Communication, Teamwork, Attention to detail

PROJECTS

Stock Market Trend Predictor (WIP) | *Python, PyTorch* — March 2025 – Present
- Developing an LSTM model in PyTorch to predict stock price trends using historical time-series data
- Integrating sentiment analysis on financial news headlines using NLP techniques to improve prediction accuracy
- Fetching and processing real-time stock data using Yahoo Finance API
- Optimizing LSTM hyperparameters with techniques like dropout and learning rate scheduling for better performance.

Space War Database (Academic) | *Java, MySQL* — January 2024 – March 2024
- Collaborated with our group to design and update relational models that would blueprint our database relations
- Created a functional UI using JSwing that allowed for interactivity with the DB. Ensuring no SQL code injection
- Implemented a secure JDBC connection to prevent SQL injection and unauthorized access

Operating Systems SHELL (Academic) | *C* — February 2024 – March 2024
- Developed a Unix shell supporting built-in commands like cd, ls, and exit
- Utilized system calls such as fork(), exec(), and wait()/waitpid() for process management and execution
- Implemented Concurrency, Redirection, and Piping similar to a Unix shell

Project Website | *HTML, CSS, JavaScript, Git* — December 2022 – Present
- Developed a website from scratch to serve as a platform for showcasing future projects
- Website includes various interactive features such as smooth transitions, clickable links, and hover effects
- Utilized EmailJS to enable visitors to contact the me directly through email
- Incorporated best practices to help create a means of organization within the CSS and HTML

NON-FIELD EXPERIENCE

Technical Help Desk Representative — October 2022 – May 2024
Shippensburg University — *Shippensburg, Pennsylvania*
- Collaborated with associates to effectively troubleshoot and resolve technical issues for students and staff.
- Logged technical issues using the University's ticketing system to ensure timely and effective resolution
- Troubleshot technologies to ensure student workflow or provided options to resolve their conflicts.

Administrative Assistant — November 2021 – Present
Lotus Consulting LLC — *New Cumberland, Pennsylvania*
- Facilitated the completion and submission of important documents, leading to a more organized environment
- Collaborated with an administrator to set deadlines, while ensuring employees met those deadlines
- Assisted in upkeep of worker database, adjusting pivot tables, and organizing data to ensure validity

EXTRACURRICULAR

Community Management and Technical Support Personal Discord Server — December 2018 – Present
- Established a thriving community of 30+ like-minded Computer Scientists/Engineers and many more
- Collaborated with community members to develop, and implement strategies to solve technical problems
- Collaboratively worked on a discord bot to fetch music from the Youtube API, play it, and queue it.