SEAN DENNEY

(256) 487-2741 | seanden522@gmail.com
www.linkedin.com/in/seanpden | https://seanpden.github.io

EDUCATION

University of Alabama at Birmingham   Birmingham, AL
Bachelor of Arts in Computer Science, Minor in Mathematics   Dec. 2022
Relevant Coursework: Cloud Security, Object Oriented Programming, Data Structures/Algorithms, Computer Organization and Assembly, Probability Theory, Discrete Mathematics, Software Engineering, Data Mining, Mobile Application Development, Mathematical Modeling

SKILLS

Languages: Python, C/C++, C#, Java, Ruby, Kotlin, Swift, HTML5, CSS, SQL, Lua, x86 Assembly
Technologies/Frameworks: Git, Watson APIs, IBM Cloud, scikit-learn, Power BI, Streamlit, Django

PROJECTS

Diagnosing Acute Myeloid Leukemia with Supervised Machine Learning Algorithms – *Python*
- Leveraged NumPy, pandas, and sklearn to create a machine learning model that can parse cytometry data and diagnose an individual with acute myeloid leukemia
- Accurate diagnosis over 95% of the time

Drone Farming – *Java, JavaFX*
- Utilized JavaFX and DJI drone API to autonomously scan farmland and manage farming assets
- Programmed exclusively with object-oriented design concepts such as singleton, composite, visitor, adapter, decorator, and command design patterns

Epidemic Probability Simulator – *Python*
- Probability Model simulating an epidemic amongst a specified population
- Engineered an algorithm that considers vaccination status, immunity status, distance between individuals, and more – returning statistics on remaining and dead population

WORK EXPERIENCE

Mcleod Software, *Data Scientist*   Dec. 2022 – Current
- Integrated custom RESTlet APIs in NetSuite; used in analysis of $300,000,000+ in transactions
- Established new standards for data governance, securing enterprise data in a data warehouse
- Programmed a python package to handle interfacing with Lansweeper's API, then modeled installed software over time - aiding in fulfilling SOC-2 compliance standards

Mcleod Software, *Data Scientist (Intern)*   May. 2022 – Dec. 2022
- Designed Power BI dashboards addressing $2,000,000+, influencing internal expenditures
- Constructed internal tools utilizing many SDKs and APIs to clean, transform, and push data to a newly constructed MSSQL database for further mining and analysis as a Power BI dashboard

Bama Budweiser, *IT Assistant*   Nov. 2018 – Jan. 2019
- Deployed a data collection solution for company distribution assets, saving $10,000+
- Implemented a timely completion of warehouse-wide OS upgrades, impacting 30+ employees

EXTRACURRICULAR ACTIVITIES

Phi Gamma Delta, *Vice President/Treasurer*   Birmingham, AL
- Minimized spending, increasing savings account by 17%
- Pioneered a housing corporation, establishing a new chapter headquarters
- Founded the "Sean P. Denney Excellence Scholarship", an endowment for new undergraduates