

SEAN DENNEY

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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, Go, Kotlin, Swift, HTML5, CSS, JavaScript, SQL, Lua

Technologies/Frameworks: Git, Linux, Azure, AWS, Docker, Power BI, Streamlit, Airflow, Spark

WORK EXPERIENCE

Mcleod Software, Data Engineer

Dec. 2022 – Current

- Integrated custom RESTlet APIs in NetSuite; used in analysis of \$300,000,000+ in transactions
- Established data governance standards, securing 100+ TB of enterprise data in a data lakehouse
- Developed a python package to interface with Lansweeper's API, deployed an ETL process, then modeled installed software over time - aiding in fulfilling SOC-2 compliance standards

Mcleod Software, Data Scientist (Intern)

May. 2022 – Dec. 2022

- Designed internal expenditure dashboards in Power BI, addressing \$20,000,000+ in spending
- Constructed internal tools utilizing many SDKs and APIs to extract, transform, and load data to a newly constructed MSSQL database for further mining, analysis, and modeling

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

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

- Real-time 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

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