

## SEAN DENNEY

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### EDUCATION

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#### 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

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**Languages:** Python, C/C++, C#, Java, Kotlin, Swift, JavaScript, HTML5, CSS, SQL, Lua, Go

**Technologies/Frameworks:** Git, Svelte, Flask, Azure Cloud, scikit-learn, Power BI, Streamlit, Django

### PROJECTS

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#### 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

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#### 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

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#### 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