Daniel Visser

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https://www.linkedin.com/in/daniel-visser-23ba48250 GitHub: https://github.com/DaVisser

SKILLS

Technological Skills: C, C++ , SQL, R, Python, Java, Javascript, HTML, CSS, Pytorch, Deep Learning, Data Cleaning, Excel, Tableau, R, Power BI, Matplotlib, Seaborn, Pandas, NumPy, AWS Lambda/Cognito/RDS, MySQL, React, Node.js, RESTful APIs, Github, Git, Azure DevOps, Agile Development, Scrum, API Testing

Other Skills: Version Control, Experimental Design, Communication Skills, Problem-Solving, Team Collaboration, Presentation Skill, Constant Learner, Musical Performance (Classical Guitar Ensemble)

EDUCATION

Clemson University | ***Master of Science*** | *Major: Computer Science*

- Concentration in Human-Centered Computing GPA: 4.0/4.0

Clemson University | *Bachelor of Science* | *Major: Computer Information Systems*

- Programming, Full Stack Software Design/Development/Deployment, Cloud Computing GPA: 3.62/4.0

EXPERIENCE

Clemson Libraries | *Data Visualization & Analysis Assistant* Aug 2024 – Present

- Helped interdisciplinary department researchers in understanding their data and proving appealing visuals to their audience, reduced the time spent on their research papers by 90%.
- Upskilled students and researchers through workshops on data tools (Power BI, Python, R, SQL).
- Leveraged **Pandas** and **NumPy** for data cleaning and manipulation

Clemson University | *IT Support Center Consultant* Feb 2023 – Aug 2024

- Assisted the needs of **over 50** clients daily to find practical solutions for a wide variety of challenging issues.
- Managed sensitive client information, while remaining in compliance with **FERPA and HIPPA** guidelines.
- Troubleshooted software issues in wide variety of systems, including but not limited to: G-suite, Microsoft A5 Suite, Adobe Suite, Zoom as well as **over 100** industry and academic specific programs.
- Analysed the needs of each ticket received, addressing **over 700** tickets we were equipped to handle and routing **over 800** others to the correct department using our 3rd party ticketing system.
- Utilized **Cisco Identity Service Engine (ISE)** in conjunction with our Network Operations Center.

PROJECTS

Depth Estimation with Deep Learning | *https://github.com/DaVisser/Depth-Estimation-Resnet*

- Fine-tuned **ResNet** and trained a deep learning model on public Kaggle datasets for image depth prediction.
- Evaluated performance using MAE, RMSE, and accuracy thresholds.

Möbius Strip 3D Modeling | *https://github.com/DaVisser/Moebius-Strip-Pytorch3D*

- Used PyTorch3D library to construct and render a 3D model of a Möbius strip.
- Explored different 3D representations and visualization techniques.

Truck Driver Incentive Program (Team Project) | *https://github.com/DaVisser/TruckDriver-Incentive-Program*

- Developed a web-based platform hosted on **AWS** for sponsors to reward truck drivers based on performance.
- Designed database architecture using **MySQL** and implemented **RESTful APIs** for data interaction.

Pizzeria Database System | *https://github.com/DaVisser/Pizzeria-DB*

- Built a **MySQL** database with a Java-based front-end to manage and filter customer orders.
- Utilized **Amazon RDS** for scalable cloud storage.

Cat Doom in Pygame (Team Project) | *https://github.com/LaythonChilders/Game-Project*

- Developed a Python-based FPS game using **Pygame** with a Doom-style 3D raycasting engine (prebuilt engine).
- Designed and implemented NPCs with pathfinding and line-of-sight detection (utilized existing techniques).
- Utilized **design patterns** (Facade, Factory Method) for modular and scalable code architecture.
- Implemented interactive features like level selection, health packs, and an endless mode.

WORK-IN-PROGRESS PROJECTS

RAG-based Movie Recommendation System

- Developing a **retrieval-augmented generation (RAG)** model to enhance movie recommendations based on user preferences and interactions.
- Utilizing **natural language processing (NLP)** techniques and large language models (LLMs) for contextual understanding.

AI-Powered Wardrobe Assistant Web App

- Designing a full-stack web application that generates outfit recommendations based on uploaded wardrobe photos.
- Integrating AI to analyse clothing styles, colors, and weather data to optimize outfit selections.

Peace Corps Oyster (in-class assignment)

- Creating a tangible interactive artifact representing the Peace Corps, featuring a 3D-printed oyster enclosing a small globe.
- Embedding an NFC chip that links to a data visualization platform showcasing Peace Corps stories worldwide.