Philip Mollerus
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EDUCATION

Dickinson College Class of 2023 – Department of Computer Science and Mathematics *Bachelor of Science in Computer Science; Additional Focus in Probability & Statistics, Data Analytics* - **Carlisle, PA** *(August 2019 – May 2023)*

RELEVANT COURSEWORK

Data Structures & Problem Solving, Analysis of Algorithms, Artificial Intelligence, Computing Abstractions, Object Oriented Programming, Computability & Complexity, CS Senior Seminar, Large-scale & Open-Source Software Development, Tools & Techniques for Software Development, Statistical & Machine Learning, Database Systems & Data Management, Intro to Data Science, Probability & Statistics I & II, Linear Algebra, Discrete Mathematics, Single & Multivariable Calculus

WORK EXPERIENCE

The Hanover Insurance Group, *IT Architecture (Intern) Worcester, MA (May 2022 – August 2022)*

- Contributed to Database Migration initiative from Microsoft Access to Microsoft SQL Server
- Developed SQL Queries and Stored Procedures for Data Extraction and Mapping
- Developed SQL Scripts for Table Insertion and Manipulation
- Developed (Java) Server for Database Connection and Data Manipulation using Apache Maven
- Partially implemented Dynamic PDF File Generation feature using Apache PDFBox Java Library
- Performed Variable Mappings between separate Databases using Excel
- Communicated regularly with Managers, including Architects, Engineers and IT Business Analysts regarding Project Status and Progress
- Presented Project Overview and Outcomes to panel of Senior Level Executives including CTO
- Understood essential Insurance Terminology and Business Models

Zuckerman Mind Brain and Behavior Institute, Columbia University, *Lab Engineer (Intern) New York, NY (June 2021 – August 2021)*

- Developed scripts for experimental procedures, data pipelining and analysis using MATLAB, PsychToolBox-3
- Integrated and calibrated EyeLink 1000 Plus eye-tracking hardware and software
- Responsible for debugging and testing of procedure builds and analysis scripts
- Performed analysis on results and assisted in drafting initial discussion of results
- Administered experimental tasks on human subjects for data collection to measure task efficiency in relation to incentives and condition modulation
    - PROJECT DETAILS: https://github.com/mollerup23/GottliebSummer2021

CREDENTIALS & SKILLS

Programming Languages: Java, Python, JavaScript, R, HTML & CSS, SQL, XML, MATLAB

Technical Skills: Github & Bitbucket, Shell, Docker, Vue, Microsoft Office Suite, Jupyter Notebook, Pandas, NumPy, Seaborn, Regression, Statistical Analysis & Hypothesis Testing

Soft Skills: Leadership, Independent, Communication, Presentation, Personable & Outgoing, Spanish Speaking