Simon Perryman

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EDUCATION

University of Michigan   **Ann Arbor, MI**

B.S.E Computer Science Engineering   *June 2023*

GPA: 3.724 /4.0

Coursework: Data Structures and Algorithms, Introduction to Computer Organization, Foundations of
Computer Science, Web Systems, Autonomous Robotics, Discrete Mathematics, Calculus, Physics

INTERNSHIP

Harman International   **Novi, MI**

Software Engineering Intern   *May 2022 - August 2022*

- Enhanced speech validation suite to include new test cases and automated the running process
- Wrote utility scripts for enabling flags, running validation suite, and collecting logs
- Used Android Studio to debug system and Amazon Alexa compatibility errors in Javascript files
- Learned several software products to configure new head units and push software updates for testing
- Managed problems with SDK implementations and communicated with other teams to resolve API bugs

ORGANIZATIONS

MHackers   **Ann Arbor, MI**

- Implemented linear regression machine learning algorithm with python pandas library
- Cleaned data and trained model on over 1000 testcases with python numpy library
- Established evaluation criteria and achieved a 90% success rate

Michigan Student Artificial Intelligence Laboratory   **Ann Arbor, MI**

- Learned fundamental principles of AI such as training, natural language processing, and ethics
- Presented and listened to discussions on emerging uses of AI and machine learning in the world today

PROJECTS

- Instagram clone implemented with static, server-side dynamic, and client-side dynamic webpages
- PCA facial recognition detection, machine learning algorithm using python numpy library to calculate
  eigenvalues and perform matrix transformations to extract eigenfaces for comparison
- Breadth and Depth first search implementations of 2D and 3D graph search
- Implemented backend of pairing heap priority queue, utilizing it to simulate a game
- Interactive timestamp, keyword, and category search of log files implemented with hash tables

SKILLS

C++/C	Python	Javascript	HTML	CSS	SQL