George Helmick

SOFTWARE ENGINEER

📱 720-325-4098 | ✉ gmhelmi@yahoo.com

Education

University of Colorado at Boulder   *Boulder, Colorado*
Bachelor of Science in Electrical and Computer Engineering | Minor in Computer Science   *August 2016 - May 2020*
GPA 3.6 | Esteemed Scholar Program, Engineering Merit Scholarship, Deans List

Certifications

AWS Certified Cloud Practitioner

AWS Certified Solutions Architect - Associate

CompTIA Security+

Skills

Programming   Python (Pandas, PyTorch, NumPy, Scikit-learn. etc.), R(ggplot2), PHP, C/C++, HTML/CSS, JavaScript, SQL.
Miscellaneous   Linux, Shell (Bash/Zsh), LaTeX(Overleaf/R Markdown), Tableau, Microsoft Office, Firebase, Git.
Soft Skills   Time Management, Teamwork, Problem-solving, Documentation, Engaging Presentation.

Work Experience

Lockheed Martin   *Littleton, Colorado*
Software Engineer   *July 2020 - Present*

- Collaborated with a four-person team to develop a CNN model that utilised YOLO as a foundation to improve the accuracy of ambient lighting conditions in the Mobile net architecture.
- Automated and optimised the data handling process for traffic signs, working with Ubuntu 20.04 did shell scripting, and employed other Linux tools.
- Significantly boosted the model's accuracy by 60%, which was yielding an accuracy of 70-78% under Indian street light. The older models, had an accuracy of 10-15%.

University of Colorado at Boulder   *Boulder, Colorado*
Engineering Launch Leader   *May 2019 - August 2019*

- Led an incoming engineering freshmen orientation group of 30+ students around the CU Campus.
- Managed team building exercises to facilitate teamwork and individual involvement in group discussions.

Projects

The Relation between GDP and IMR

University of Leeds   *Feb 2022 - Apr 2022*

- Analysing data from 1960 to 2020 and discover patterns in the data that show trends between Gross domestic product per capita, Infant Mortality rate, Literacy Rate, and Industrial Development.
- Study cross-sectional, longitudinal, and among various countries to find variations in trends and get the historical data to back up the change in the trend of our data.
- Specific case studies were traced back to trends seen in the UK and how they affected the GDP and IMR.
- **Technical Skills:** Tableau, Overleaf, LaTeX.
- **Soft Skills:** Time Management, Teamwork, Presentation skills, Report writing.

IPL Analysis

University of Leeds   *Nov 2021 - Dec 2021*

- Analysing data from 2008 to 2015 to discover patterns such as trends, correlations, and probabilities.
- Finding the differences between the best teams and players in various fields, as well as their performance on the field and the opponents.
- **Technical Skills:** Python with Pandas, matplotlib, Seaborn.
- **Soft Skills:** Presentation skills, Leadership, Teamwork, Logical Thinking.

Study of the behavior of Serial Killers   *Leeds, UK*

University of Leeds   *Oct 2021 - Dec 2021*

- Study of serial killers behavior with various motives such as convenience (did not want children or spouse), enjoyment, power, escape, or avoiding arrest.
- Finding patterns in their starting and ending ages (when they are caught) and other factors of killing, as well as how it varies with different motives.
- **Technical Skills:** R with ggplot2, tidyr, R Markdown.
- **Soft Skills:** Report writing, Logical Thinking, Critical Thinking.