CHRISTOPHER FU

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EDUCATION

University of California, Los Angeles   Expected Graduation: June 2024
B.S. Mathematics, Data Theory   Overall GPA: 3.78/4.00
Relevant Coursework: Python with Applications, Introduction to Programing in C++, Introduction to Statistical Programming with R, Linear Algebra, Real Analysis, Introduction to Data-Driven Mathematical Modeling: Life, Universe, and Everything, Differential Equations
Awards: Top 15 Finalist in 2022 ASA DataFest at UCLA, Runner-up in IBM Good Tech Scholars Program, Dean's Honor list for 4 quarters

PROJECTS

Quora Natural Language Processing Project for ACM AI Student Chapter at UCLA   **Los Angeles, CA**
Project Member   Oct 2022 - Nov 2022
- Developed a deep learning natural language processing model using Pytorch to identify questions, resulting in labeling 33% as spam
- Implemented LSTM neural networks to decipher embeddings, reducing batch size by 29% and expediting model learning by 36%
- Performed train-validation split on the Quora Insincere dataset to debug model, increasing model accuracy and test performance by 42%

International Business Machines Corporation (IBM)   **San Jose, CA**
Web Developer   Jul 2022 - Aug 2022
- Developed an accessible user centered platform for food service workers utilizing JavaScript React to directly alleviate economic instability and health complications caused by high densities of relative and situational poverty in urban cities, increasing job application ease by 30%
- Initiated iterative design via the MURAL platform for food service workers, providing job resources to 1500+ underprivileged workers
- Implemented job listings into our ReactJS application to provide proper mapping of various workplaces, boosting data accuracy by 70%

2022 ASA DATAFEST AT UCLA   **Los Angeles, CA**
Project Lead   Apr 2022 - May 2022
- Analyzed datasets for the Yale School of Medicine's play2PREVENT visual novel video games by programming in Python and R to offer insight towards health improvement, enlarging user retention rate for 11-year olds by 120% to match those rates for older pre-teenagers
- Spearheaded collaboration in the project using Google Colab to generate Python code containing histograms, line charts, box charts, and LaTeX tables of our exploratory data analysis to facilitate a shared platform for organization, accelerating team problem-solving by 65%
- Aggregated project work into a Microsoft PowerPoint presentation incorporating Coolors color palettes to impart a comprehensible data visualization of our findings for the judges and audience to deliver an intelligible discussion, increasing overall audience attendance by 20%

PROFESSIONAL EXPERIENCE

Apple Studios, LLC, Production Title "Gray Horse"   **Bartlesville, OK**
HSC Staff on Production of "Killers of the Flower Moon"   Jun 2021 - Aug 2021
- Monitored key areas of traffic flow as well as managed, procured, and distributed inventory of PPE in the production office and on-set as a means to ensure the health and safety of staff working in areas of possible COVID-19 exposure, reducing COVID-19 cases by 20%
- Transported COVID-19 tests from HSC sites to various laboratories to accelerate testing and reduce cases, increasing productivity by 70%
- Cataloged a log of packages for the costuming and production departments through Microsoft Excel, growing work output by 33%

LEADERSHIP EXPERIENCE

Google Developer Student Clubs Student Chapter at UCLA   **Los Angeles, CA**
Technical Lead   Sep 2022 - Present
- Organized and lead hands-on workshops to teach machine learning open-source softwares like TensorFlow to passionate students
- Hosted quarter-long projects dedicated to guiding students on developing technologies and fostering collaborative software development
- Troubleshooted and assisted with technical issues using Visual Studio Code to debug coding problems, reducing runtime errors by 60%

Alpha Lambda Delta and Phi Eta Sigma Honor Societies at UCLA   **Los Angeles, CA**
Secretary   May 2021 - Jun 2022
- Recorded transactions meetings using Google Suite to generate a roadmap of club events, increasing club efficiency by 35%
- Monitored all administrative matters via GroupMe in order to establish board communication, bolstering club reporting by 80%
- Published weekly newsletters for specific cohorts through Mailchimp to encourage club growth, increasing event attendance by 40%

SKILLS AND INTERESTS

- **Technical**: Python (NumPy, Matplotlib, scikit-learn, pandas, PyTorch, PySpark, Jupyter), R, SQL, Tableau, Power BI, AWS, Excel, APIs
- **Interests**: Hip hop, Music Theory, Stratocasters, Cross Country, Movies and TV Shows Analysis, Metroidvania/Roguelite Video Games