

Hui (Henry) Chen

DATA SCIENTIST · M.S. IN DATA SCIENCE · NEW YORK INSTITUTE OF TECHNOLOGY

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About Me

Programming Python · Java · JavaScript · PHP · NodeJS · MapReduce · Bash
Analytics Data cleaning/visualizing · SQL/NoSQL · Hypothesis Testing · Tableau · Access · Excel · R · Hadoop
Tools Premiere Pro · Jira · Git · AWS · Docker · Machine/Deep Learning · NLP · Unix/Linux

Experience

Invisible Hands Deliver Inc

SOFTWARE ENGINEER VOLUNTEER

New York, NY
Aug 2021 - Present

- Implemented a real-time interactive geolocation map for serving 16.6K+ NYC users via the Google Map API.
- Designed and integrated new scalable modules to enhance the application usability through JavaScript, TypeScript, React Native, and Redux.

JobLogic-X Corp.

DATA SCIENTIST INTERN - PRODUCT TEAM

New York, NY
Feb 2022 - Jul 2022

- Led the design and development of the enterprise-level product recommendation model of the Product and Marketing Team, driving \$1.3 million of revenue by collaborating with cross-functional partners to better product targeting.
- Analyzed Needfinding results from 90+ people from a Product Management perspective to gain insight into the business challenges and optimize staff-management objectives improving ROI by **63.5%**.
- Enhanced the recommendation engine by employing an unsupervised algorithm with computer vision to achieve **94%** recall (XGBoost) on the product segmentation.

New York Institute of Technology

LEAD PROJECT COORDINATOR & GRADUATE ASSISTANT

New York, NY
Sep 2021 - May 2022

- Showcased and deployed an end-to-end mobile app on a conference implemented and deployed through AWS Lambda, DynamoDB, React Native, and Node.js in order to bring awareness of global native land.
- Scrapped and aggregated 4.2k native land data from multiple sources and performed data cleaning for analysis and visualization on Tableau.
- Optimized the grading and plagiarism checking by implementing an internal tool to automate the process through version control and software testing reducing manual jobs by **70%**.

SkyMobile Inc.

FULL-STACK DEVELOPER

New York, NY
Aug 2019 - Mar 2020

- Analyzed and redesigned websites with sales and products team by optimizing sales objectives and online payments to increase sales by **20%**.
- Reported directly to CEO:** Engineering lead for designing and developing the fintech transaction dashboard that provides a rich visual summary of daily business partner transactions powered by Google Chart. Used by different departments in the decision-making process.
- Improved database SQL injection vulnerabilities by implementing and configuring server-side scripts through PHP OOP and permissions.

Projects

IMG CLASSIFICATION: FEATURE SELECTION, DATA AUG, AND TRANSFER LEARNING [↗](#)

Feb 2022 - May 2022

- Analyzed the imbalance data of different handcrafted features (LBP, LBP+PCA, HoG, SIFT) and feature selection (PCA) with SVM for medical diagnosis and facial expressions recognition via GPU acceleration to achieve 93.3% accuracy and **0.93** AUC.
- Built pipelines for image augmentation and fine-tuning to enrich the training data and boost the SVM accuracy by **18.5%**.
- Automated the experiment results tracking of cross-validation and feature engineering using Python, Excel, plotly, Weights & Biases.

DATA VISUALIZATION: JOB SKILLSET SEEKING [↗](#)

Feb 2022 - May 2022

- Built and deployed an interactive data visualization dashboard to better understand the job datasets through R, plotly, and shiny.
- Applied spaCy and NLTK tools on large-volume documents to clean and preprocess from utility packages to better understand NLP.

RECOMMENDATION: SCHOLAR SEEK [↗](#)

Feb 2021 - May 2021

- Showcased an end-to-end cross-platform mobile app for students to get personalized recommendations in scholarships, colleges, and majors.
- Implemented an automated tool to scrap, clean, and ETL 2.7 million rows of semi-structured scholarship data and 3.5k+ rows of unstructured US-college data by using selenium with anti-captcha and real-time authentication.
- Designed and documented scalable RESTful APIs to enable a secured and encrypted token integration between the client-side devices, the backend, ML models, and MongoDB through Flask and JWT.
- Deployed and configured the backend for testing and production environments and containerized the ML models, RESTful APIs, and web scrapings to AWS EC2 through Docker.

Education

New York Institute of Technology

M.S. IN DATA SCIENCE (CGPA: 3.96/4)

New York, NY
Sep 2021 - May 2022

- Supported and updated Stanford University Journalism (open source) scraping scripts with the latest python code.

New York Institute of Technology

B.S. IN COMPUTER SCIENCE (CGPA: 3.51/4)

New York, NY
Jan 2018 - May 2021

- Leadership:** Tech Lead of Google Developer Studnet Clubs