

Thomas Huang

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Education

New York University

Sep 2019 - May 2022 (Expected)

BACHELOR OF ARTS IN COMPUTER SCIENCE AND ECONOMICS

New York, NY

- GPA: 3.965/4.000
- CS Courses: Data Structures, Computer Systems Organization, Operating Systems, Basic Algorithms, Linear Algebra, Statistics
In progress: Applied Internet Technology, Agile Software Engineering, Data Management and Analysis
- Econ Courses: Microeconomic Analysis, Macroeconomic Analysis, Intro to Econometrics, Money & Banking

iXperience

July 2021 - Aug 2021

INTRO TO DATA SCIENCE COURSE

Cape Town, South Africa (remote)

- Six-week crash course on data science fundamentals and techniques.
- Basics of data wrangling, feature engineering, linear/logistic regression, PCA, clustering, decision trees/ensembles, support vector machines, natural language processing, and neural networks.
- Libraries used include numpy, pandas, seaborn, scikit-learn and keras.

Skills

Languages Python, Javascript, HTML/CSS, Java, SQL, C

Programming Agile/Scrum framework, OOP, dynamic programming, debugging, reverse engineering

Data Science data wrangling/analytics, numpy, pandas, seaborn, predictive modeling with scikit-learn, neural networks

Web/Database node.js, Express.js, Handlebars.js, React.js, Bootstrap, MongoDB, PostgreSQL

Other Tech Git/GitHub, VSCode, Jupyter, Eclipse, Vim, Linux, MS Word/Excel/PowerPoint, OBS, FL Studio 12

Experience

DataProphet

July 2021 - Aug 2021

DETECT DATA SCIENCE INTERN

Cape Town, South Africa (remote)

- DETECT project to detect anomalies in industrial-manufacturing machine behavior.
- Preprocessed multivariate time-series data in Python.
- Researched various neural networks on sample data for unsupervised learning (VAE, CVAE, CycleGAN, TadGAN [OrionML]).
- Developed LSTM autoencoder in Keras for time-series anomaly detection with hyperparameters and visualized reconstructions.
- Maintained/versioned code, researched future improvement of LSTM AE model using adversarial critic networks.

Projects

All In Poker Ongoing. Agile/Scrum team project to build a web app for users to play poker together. React front end, Express as a back-end proxy, database hosted on MongoDB Atlas, deployment to Digital Ocean Droplet. Currently in back-end development.

Showstop Ongoing. Personal project; film- and TV-cataloging web application; users can store lists of the media they consume in the database, along with information about their watching progress, ratings, and notes. Will integrate scores from IMDb-alternative API.

Personal Website October 2021. A website by and about me, hosted at <https://platypus.house> and served on Github Pages. Contains an expanding catalog of my information, projects, and hobbies.

COVID-19 Vaccination Data Analysis July 2021. Cleaned and enriched public global vaccination data with geographical/regional data in Python. Explored and visualized various dimensions of the data (type, quantity, and percentage of population) by country and continent, and made projections for when major countries would reach certain vaccination thresholds using FBProphet.

Course Registration System Software February 2020. Designed a university course registration system in Java that allows creation, deletion, and manipulation of course and user-login information. Supports serialization to save and reload data.