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Yang (Gilbert) Yan

EDUCATION

Massachusetts Institute of Technology (MIT) | Major: *Mathematics* | GPA: *4.3/5*   Sep. 2017 – Jun. 2021

Courses: *UI/UX Design | Database Systems | Machine Learning | Linear Algebra & Group Theory*

Activities: *Design for America (DFA) Team Lead | Traders@MIT Executive Lead | Asian Dance Team (ADT)*

INDUSTRY

Microsoft Corp.   Cambridge, MA

Software Engineering Intern (Azure Machine Learning Service)   Jan. 2019 – present

- Built and designed integration between open-source MLflow and Azure Machine Learning Service.

Inmensus Trading LLC   Cambridge, MA

Co-Founder; Database Administrator   Apr. 2018 – Sep. 2018

- Founded algorithmic crypto-trading firm with 3 other partners from conception to dissolution.
- Designed and implemented SQL database systems for exchange & deployed strategy monitoring.

Lucid Software Inc.   South Jordan, UT

QA Automation Intern; Software Engineering Intern; Sales Analytics Intern   Oct. 2016 – Dec. 2016

- Built and maintained new automated testing suite in Selenium/Scala to complement existing unit tests.
- Developed and revised 15+ features for the Lucidchart web app under the Agile dev cycle.
- Deduplicated and cleaned Salesforce user database (5M+ users) using ML and classical methods.

A-Star (A*) Computer Science Camp (Star League Inc.)   San Jose, CA

USACO Silver Instructor; USACO Bronze Instructor   Dec. 2014, Jun. 2015, Dec. 2016

- Lectured and prepared material for secondary school students in Olympiad informatics daily.

PROJECTS

Emilia-tan: HTTP & SMTP Server   *emilia-tan.com* | Jun. 2016 – present

- Independently setup AWS EC2 hosting, git VC, and integration with 7K+ lines of C++/WinAPI from scratch.
- Learned low-level TLS/SSL, WinAPI & sockets, and HTTP & SMTP protocols without any external guidance.

MIT Confessions Simulator   *page on Facebook* | Jun. 2018

- Modeled MIT Confessions FB pages with RNNs (accuracy > 70%) to generate and post to Simulator page.

SKILLS

Proficient in: C++, WinAPI, Python (keras, selenium, pandas), Java, SQL, HTML/CSS/JS/TS, git, AWS (RDS, EC2), Azure

Experience with: Go, React, Angular, LaTeX, Scala, Node, Swift, Graph API

RESEARCH

Usability Design & Testing for Espalier *with Software Design Group*   *MIT* | Sep. 2018 – present

- Prototyped and tested UI designs of the legacy Espalier spreadsheet over many iterations.
- Redesigned Espalier with team from user feedback and rebuilt the framework from ground up.

Full-Stack & UI/UX Design for a Campus Energy Model *with Sustainable Design Lab*   *MIT* | Sep. 2018 – Nov. 2018

- Upgraded and maintained full-stack system in React and multiple EC2 instances for a new UX.

Modelling Cellular Stress Mechanisms *with Prof. Frederick Adler*   *University of Utah* | Sep. 2015 – Jun. 2016

- Analyzed, fitted, and visualized mechanism-based models to gathered lab data.

HONORS & AWARDS

USA Computing Olympiad (USACO) *Finalist (Top 24 in the U.S.)*   2014

USA (Junior) Math Olympiad (USA(J)MO) *Qualifier (Top ~270 or ~500 in the U.S.)*   2013, 2015, 2016

Intel International Science and Engineering Fair (ISEF) *Finalist*   2016

LANGUAGES: **Mandarin Chinese** *(native)* | **American English** *(native)*

HOBBIES: **XC Running** *(Mt. Nebo Marathon 2018)* | **Anime** *(> 250 series)* | **League of Legends** *(Plat. V)* | **Ping Pong**