SEBASTIAN TOO

GET IN TOUCH

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- sztoo
- sztoo

SKILLS

Languages
Python (pyspark, pandas, numpy, sklearn, etc.), JavaScript, C, Java, HTML & CSS, SQL

Technologies & Tools
Microsoft Azure, Vue, Hive, Impala, Node, Linux, Git, Apache Spark, Orange, JMP13, Splunk Enterprise

Design & Prototyping
Illustrator, Photoshop, InDesign, Sketch

EDUCATION

Illinois Institute of Technology, Chicago IL
B.Sc. in Computer Science
Class of 2018

Awards
- Graduated Cum Laude
- Presidential Scholarship
- Dean Lists

Notable Courses
- Adv. Data Mining
- Online Social Network Analysis
- Geospatial Visualization & Vision

Organizations
- Upsilon Pi Epsilon (UPE)
- Assoc. for Computing Machinery (ACM)

EXPERIENCES

Reply Inc., Data Scientist   *Chicago, IL*
June 2018 – December 2020

- Laid down project architectural foundation and dependencies for a Fortune 500 company that specializes in agricultural and construction machineries.
- Implemented and enforced software methodologies throughout digital product development phases. Set up UAT to uphold process integrity with product owner.
- Conducted exploratory data analysis and automated report generation into **Microsoft Power BI**.
- Built and productionized ETL pipelines with **Data Lake**, **Data Factory** and **Databricks** from **Microsoft Azure**. Revised underlying data structure with **PySpark** to reduce data lookup from O(N) to O(1).
- Spearheaded in-house digital product project. Built end-to-end control room; frontend: **Vue.js** and **D3.js**, backend: **Flask**, **Celery**, **Redis**, **Data Lake**. Integrated **Auth0** on top of web app to uphold access regulation.
- Refactored legacy use cases and migrated from local to cloud. Report outcomes are now dynamically published in control room.

Illinois Institute of Technology, Teaching Assistant   *Chicago, IL*
August 2016 – May 2018

- TA for Systems Programming, a core subject in CS curriculum taught in **C**.
- Resolved technical issues & aided on machine problems (cache simulator, dynamic memory allocator, etc.) and led to 98% submission rate.
- Increased students' engagement on Piazza by an average of 37% through series of analytics questions on virtual memory, UNIX, shell and more.

Accenture LLC., Technology Consulting Summer Analyst   *Kuala Lumpur*
May – August 2017

- Onsite with largest power company in Southeast Asia for ITSM project.
- Automated data extraction using **cron** and **Python (Beautiful Soup)** into Splunk, reducing average 30 minutes of manual work per maintenance cycle.
- Developed and productionized Splunk dashboard to reflect Splunk monitoring tools' health statuses; Used **Vanilla JavaScript** and **Splunk XML**. Streamed statuses live update with **Splunk Processing Language** and set up alerts during downtimes, minimizing troubleshooting time by average of 12 minutes.
- Streamlined data visualization process across applications and services. Improvised Splunk tokenization functionality to read key definitions from CSV, allowing maintainers to be non-technical.