Vetrie Senthilkumar

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EDUCATION

University of Illinois at Urbana-Champaign   August 2017 - May 2021
Bachelor of Science in Computer Science and Statistics   **GPA: 3.93/4.00**
- *Relevant Coursework*: Software Design Studio, Discrete Structures, Data Structures, Statistical Programming Methods, Statistics and Probability II, Applied Linear Algebra, Computer Architecture, Numerical Methods
- *In Progress:* Algorithms and Models of Computation, Statistical Computing, Applied Regression and Design
- *Distinctions*: James Scholar, Dean's List

PROFESSIONAL EXPERIENCE

General Electric Aviation – Data Engineering Intern (Cincinnati, OH)   May 2019 – August 2019
- Utilized Python to fully automate and optimize various ETL processes involving GE's military data lake
- Developed dynamic visualization tool displaying military aircraft's status by analyzing data queried from PostgreSQL
- Improved production data quality by automating testing of tools used to decrypt confidential military files
- Won Impact Award from GE Corporate for improving ingestion rate of flight engine statistics by ~10x

CareVoyant Inc. – Software Engineering Intern (Schaumburg, IL)   June 2018 – August 2018
- Built a Python utility that converts various Electronic Medical Records such as physician/nurse notes, patient assessments, care plans, etc. from XML to PDF format using ReportLab
- Program generated PDFs 4x faster than previously used software

PROJECTS

Forex Simulator
- Developing a forex simulator using React.js and Django that lets users manage a portfolio of foreign currencies
- Features include candlestick charts, Fibonacci retracements, various moving averages, and ability to place orders

UIUC Course Data Explorer *(2018 Data Visualization Competition 2nd Place)*
- Designed an award-winning interactive website that allows students to explore grade distribution information for specific courses, professors, general education categories, and majors
- Deployed with AWS and utilizes Google Analytics to analyze website traffic and demographics of **1000+** users

Chicago Crime Analysis
- Created a R Shiny web app that includes an interactive map of Chicago with crime markers, time series graphs for various types of crimes, and crime statistics visualizations per each of Chicago's districts

LEADERSHIP EXPERIENCE

Vice President of Sports Analytics Society   January 2018 - Present
- Organized sports analysis projects and led marketing campaign to elevate club's profile and increase recruitment
- Presented technical workshops on data analysis and data visualization techniques in R and Python

Corporate Outreach Officer of Illini Statistics Club   September 2018 – Present
- Helped corporate sponsors create mutually beneficial talent pipelines by coordinating networking opportunities
- Oversaw logistics and planning for Illini Datathon, the largest data science event on campus with **250+** students

TECHNICAL SKILLS

Programming Languages: Python, C++, Java, PostgreSQL, JavaScript, R, MIPS Assembly, HTML/CSS
Technologies: React.js, Django, R Shiny, ReportLab, openFrameworks, Git, Verilog, Spotfire