

# Angus Jyu

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## EDUCATION

**University of Illinois at Urbana-Champaign**

**May 2023**

*Bachelor of Science in Computer Science and Statistics*

## WORK EXPERIENCE

### **CIMON Automation**

*Software Development Engineer (Contract/Temporary)*

**October 2023 – December 2023**

- Designed & implemented 7 different features within the first month of hire using C++, Qt, and JSON: incorporated support for user-defined sound files, designed GUIObjects for allocating large amounts of memory, deployed support for gradient color palettes, built enable/disable features for GUI components, and established a throttler for module updates
- Integrated a PDF viewer into the CIMON software through applying Qt software, Chromium, Pdfium, and Ninja

### **Ford Motor Company**

*Data Science Intern*

**May 2021 – August 2021**

- Optimized SQL scripts that reduced data extraction time for the analytics team by 5 hours/week, and extracted 290k+ data entries from Ford's vehicle database through employing SQL, PuTTY, and Hadoop
- Constructed the SQL queries that defined the usage for Selectable Drive Modes, a feature being launched in new Ford vehicles, and documented them on the Ford wiki for future operations

### **ATLAS**

*Web Development Intern*

**September 2020 – May 2021**

- Launched a custom website for a professor at a university using web development software and WordPress, incorporating 225 audio and text files in 3 languages, and established the website design structure for future interns
- Kickstarted the Web Development team at ATLAS (which serves the 1300+ faculty members at the university) and conducted initial outreach to the university faculty, contacting 37 different potential clients

### **Ford Motor Company**

*Software Development Intern*

**June 2020 – August 2020**

- Automated new data structures that logged GPS navigation data (including system tick data, gyro/accelerometer data, and dead reckoning) for SYNC 4.0 off-board software to process, advancing the data retrieval process for Ford's future vehicles
- Implemented GIT and DET software to catalog the FORD SYNC 4.0, an upgraded infotainment system for future Ford vehicles

### **Gies College of Business**

*Research Intern*

**December 2019 – April 2020**

- Applied Amazon Web Services, Node.js, Ubuntu, R, Python, and BeautifulSoup to scrape textual data off of 25 websites
- Assembled studies from 30 academic journals to analyze the supply side of counterfeit markets and its economic impact

### **ATLAS**

*Software Engineering Intern*

**October 2019 – December 2019**

- Experimented with Raspberry Pis and WebTools to improve functionality for the University of Illinois's Digital Signs, the digital billboards system installed to display information across the many buildings on campus, serving the 30,000+ students and faculty
- Deployed the Digital Signs system into 20% more monitors across university campus and cut the Digital Signs synchronization/update time by 60% through integrating Raspberry Pis and transcribing extensive code documentation for future workers

## PROJECTS

### **Home Remodeling Business Website**

**August 2022 – August 2022**

- Designed a responsive full-stack website that can be used as a template for building business websites, using JavaScript, HTML, CSS, React, and Material UI on the front-end, and Python, Django, SQLITE, and Rest API on the back-end

### **Produce 101 Rankings**

**April 2018 – July 2022**

- Visualized thousands of ranking data points and deployed the data visualizations into digital charts for my website using JavaScript, HTML, and CSS. Website has attracted more than 425,000 unique users from 174 countries
- Converted 2100 data values and compiled them into infographics through the use of d3.js, Google Sheets, and Microsoft Excel

### **Machine Learning on Online Media Data Analysis**

**October 2017 – August 2018**

- Designed a low-cost multivariate linear regression model by incorporating computer-aided predictive modeling. Architected scripts in R to parse online media data sets containing 140k+ data instances, mapping out data visualizations of the correlations between all 393 attributes in the data set
- Won National 1st Place at MIT INSPIRE, the world's largest social sciences research competition. Resulted in submission to Harvard JEI

## SKILLS

Agile, Amazon Web Services (AWS), Bash, C, C++, C#, CSS, Django, Git, HTML, Java, JavaScript, JSON, Machine Learning, MATLAB, MySQL, .NET, Node.js, NumPy, Power BI, PostgreSQL, Python, Qt, R, React, SQL, SQLite, Tableau