

Stephen Yupa

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EDUCATION

Georgetown University, Washington, DC

Expected May 2027

B.A. in Economics and Computer Science | GPA: 3.877/4.0

Relevant Coursework: Data Structures & Algorithms, Discrete Mathematics, Object Oriented Programming, Econometrics, Mathematical Statistics, Database Systems

TECHNICAL SKILLS

Programming Languages: Python, C++, SQL, R, TypeScript, JavaScript, Java, HTML, CSS

Frameworks/Libraries: React, Node.js, Express, Flask, PyTorch, scikit-learn, Tailwind CSS

Tools & Databases: Jira, Prometheus, Postman, Figma, Git, Linux, PostgreSQL, MongoDB, Redis

Cloud & DevOps: AWS, Azure, Docker, Kubernetes, Ansible, Terraform, Github Actions, CI/CD

RELEVANT EXPERIENCE

Data & Strategy Intern, Georgetown Scholars Program — Washington, DC.

June 2025 – August 2025

- Streamlined student resource allocation by automating a **Google Forms** → **Excel** data pipeline, reducing manual reporting time by **40%** across **150+ student records**
- Developed and presented “**GSP 101**,” a digital onboarding program adopted by first-year staff, increasing student preparedness and event attendance by **25%**
- Designed and deployed **10+ A/B-tested digital campaigns**, leveraging analytics from **Instagram Insights** to boost engagement by **35%** and CTR by **22%**

Data Operations Assistant, Office of Undergraduate Admissions — Washington, DC

May 2024 – August 2025

- Processed and validated **5,000+ applicant records** with **99.9% accuracy**, improving database integrity for admissions analytics.
- Built Excel-based reporting templates to monitor visitor trends and staff allocation across **100+ events**, supporting data-driven scheduling
- Handled **50+ daily inquiries** and optimized communications workflow, maintaining a **98% satisfaction rate** among prospective students

Technical Consultant, Georgetown Ventures — Washington, DC

September 2024 – May 2025

- Collaborated with founders at **The Petition Company** to prototype a **Python-based handwriting recognition model** trained on petition signature datasets, benchmarking accuracy against **Google Vision OCR** to improve signature validation
- Revamped and deployed [DarkSaber Labs' website](#) using **HTML**, **CSS**, and **JavaScript**; improved **mobile responsiveness** and reduced average load time by **35%**
- Supported **pitch development for startup clients**, creating **data visualizations and performance metrics** that helped secure **initial investor funding**

PROJECTS

[Financial Forecasting & Scenario Analysis](#) | *Python, Excel, Tableau*

Fall 2025

- Developed an end-to-end **financial forecasting platform** for S&P 500 risk analysis, automating data ingestion, preprocessing, and **time-series modeling (Prophet, ARIMA)**
- Designed **interactive Tableau dashboards** to visualize scenario outcomes (best, expected, worst, stress) and forecast intervals
- Built automated alerting for **risk metrics** (Volatility, VaR, CVaR, Max Drawdown) to flag portfolio drawdowns >25%

[Damages Analysis & Econometrics Modeling of Wage Inequality](#) | *Stata*

Summer 2025

- Built reproducible **Stata pipeline** for CPS microdata (data wrangling → OLS estimation → reporting), version-controlled on GitHub
- Modeled effects of **education, gender, and age** on log wages using heteroskedasticity-robust regressions, validating with **fit diagnostics** and **coefficient stability tests**
- Delivered clear statistical summaries enabling interpretation of wage disparities and policy implications

[B+-Tree Indexing System](#) | *C++*

Spring 2025

- Engineered a high-performance, **pointerless B+-Tree** simulating disk-based storage with custom 2D memory arrays
- Optimized **insert/search/delete** operations using polynomial hashing, achieving **2× faster retrieval** in benchmark tests
- Built a CLI for traversal, benchmarking, and index validation, demonstrating algorithmic optimization and systems-level design