

Education
<div>FLORIDA INTERNATIONAL UNIVERSITY</div> <div>Computer Science, BA</div> <div>JUNE 2021 – AUGUST 2025</div> <div>Miami, Florida</div>

Skills
<div><b>Data Engineering:</b> Python (pandas, SQLAlchemy, MySQL Connector), relational databases, ETL pipelines, API integration (Patreon, Gumroad), data scraping (Selenium), JSON handling</div> <div><b>Data Science &amp; Analytics:</b> Predictive modeling, data visualization, Power BI, pandas, historical currency conversions (forex-python)</div> <div><b>Software Development:</b> Python, Java, C#, Node.js, Visual Studio 2019/2022, Git, AWS, Flask</div> <div><b>Database Management:</b> MySQL, database design, query optimization, version control, error handling in SQL</div>

Relevant Experience
<div><div>HASH STUDIOS</div><div>Technical Co-Founder (Data Engineering Focus)</div><div>JULY 2024 – PRESENT 2024</div><div>Fort Lauderdale, Florida</div><ul style="list-style-type: none"><li>Automated <i>data pipelines</i> to extract and process vendor sales data from Patreon, BOOTH.pm, and Gumroad <i>APIs</i> using <i>Python</i> and <i>Selenium</i> for supplemental data scraping.</li><li>Developed a <i>custom Python library</i> for structured <i>logging</i>, debugging, and integration with SQL databases, optimizing workflow and error tracking.</li><li>Designed a <i>relational database schema</i> and implemented robust ETL workflows for storing and querying complex datasets, improving data integrity and accessibility.</li><li>Implemented <i>historical currency conversions</i> with forex-python to normalize financial data across regions, enabling accurate revenue analytics.</li><li>Produced detailed analyses of product performance, sales trends, and customer behavior, driving strategic decision-making for marketing and product development.</li></ul></div> <div><div>FIU ROBOTICS AND DIGITAL FABRICATION LAB</div><div>Student Senior Robotic Lab Assistant</div><div>AUGUST 2022 – SEPTEMBER 2024</div><div>Miami, Florida</div><ul style="list-style-type: none"><li>Developed AR/VR applications to engage children and parents in interactive activities, encouraging physical movement and exploration.</li><li>Conducted research on <i>VPS</i> in Lightship for accurate spatial localization and <i>ARDK</i> for immersive AR experiences including <i>object rendering</i>, event-driven spawning, and real-time progress tracking.</li><li>Led the development of cross-platform interactive applications for <i>iOS</i> and <i>Android</i>, utilizing <i>Visual Studio</i>, <i>XCode</i>, and <i>Android SDK/NDK</i> to ensure seamless user interaction.</li></ul></div>

<div><div>MIAMI-DADE COUNTY</div><div>Data Science Intern</div><div>MAY 2024 – MAY 2024</div><div>Miami, Florida</div><ul style="list-style-type: none"><li>Developed predictive models in <i>Python</i>, using <i>correlation matrix heatmaps</i> to identify key trends and inform data-driven policy recommendations.</li><li>Created <i>Power BI dashboards</i> showcasing sentencing patterns, providing actionable insights for decision-makers.</li><li>Managed version control and project workflows using <i>Azure DevOps</i> and <i>Git</i>, maintaining code quality and smooth collaboration.</li><li>Delivered comprehensive presentations to senior leadership, including the CIO, demonstrating data insights and potential impact.</li></ul></div>
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Relevant Projects
<div><div>VENDOR DATA ANALYSIS SYSTEM</div><div>Developer</div><div>SEPTEMBER 2024 – DECEMBER 2024</div><div>Python, Selenium, MySQL, API Integration, Custom Libraries</div><ul style="list-style-type: none"><li>Engineered a comprehensive <i>data pipeline</i> to collect, transform, and analyze vendor sales data from <i>Patreon</i> and <i>Gumroad APIs</i>, supplementing missing fields via <i>Selenium</i> for web scraping.</li><li>Automated <i>currency normalization</i> and conversions using forex-python for multi-regional sales data.</li><li>Designed and deployed a <i>relational database</i> in <i>MySQL</i>, managing sales, customer, and product datasets with optimized querying.</li><li>Implemented data validation and error handling through a <i>custom Python library</i>, ensuring clean and reliable data processing.</li></ul></div>

<div><div>AUTOMATIC PATREON INTEGRATION WEBSITE</div><div>Developer</div><div>JULY 2024 – AUGUST 2024</div><div>AWS, Node.js, MySQL, HTML, JavaScript, Git</div><ul style="list-style-type: none"><li>Built an AWS-hosted EC2 website integrating <i>Patreon API</i> with <i>OAuth 2.0</i> for user authentication and tier management.</li><li>Designed <i>data pipelines</i> for syncing user data and subscription tiers, ensuring real-time updates between users and the backend.</li><li>Enhanced backend efficiency by implementing <i>dynamic database queries</i> and asynchronous processing of user-submitted data.</li></ul></div>
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