Jay Yunas

+1 (646) 255-0291 | jay@jayyunas.com | linkedin.com/in/jayyunas | github.com/jayyunas | jayyunas.com

EDUCATION

Connecticut College   New London, CT
Bachelor of Arts in Computer Science; GPA: 3.40   *Aug. 2018 – May 2022*
- **Honors**: Forbes Under 30 Scholar, Presidential Scholar, Dean's High Honors
- **Undergraduate Coursework**: Data Structures; Algorithms; Computer Organization; Networks; Discrete Math; Software Development; Computer Vision; Artificial Intelligence; Machine Learning; Data Mining

EXPERIENCE

Associate Software Developer   October 2022 – Present
Systemsoft Inc.   *Washington, DC (Remote)*
- Designed and developed high-performance, scalable web applications using Angular and Typescript, resulting in a 50% increase in user engagement and a 30% decrease in page load times
- Created server-side microservices using SpringBoot, Couchbase, and RX Java, achieving an average response time of 28 milliseconds and enabling seamless communication between systems
- Utilized advanced data structures and algorithms to improve the efficiency and reliability of applications, resulting in a 30% increase in system throughput

Artificial Intelligence Research Assistant   Sep. 2018 – Present
Connecticut College   *New London, CT*
- Developed a strong autonomous fighter pilot agent in XPilot, a virtual environment for studying AI, using a set of three algorithms with specific heuristics for attacking, defending, and maneuvering.
- Improved the performance of the advisory board AI agent using a queue genetic algorithm implemented in C++, resulting in a 20% increase in success rate
- Utilized annotated sets to train a neural network using Racket and fine-tune the decision-making process of the agent, resulting in a 15% reduction in decision-making time

Software Engineer Intern   May 2019 – July 2019
Tech Mahindra   *New Delhi, India*
- Developed and implemented software applications and systems based on user's needs, utilizing strong experience in SQL analytic queries and designing data distributions strategy
- Led a 10-member team in successfully analyzing 50+ companies using SQL Server and Power BI to implement AI and ML solutions for enterprise clients, resulting in $15,000 in revenue
- Created scripts to reorganize 15 years of specific SQL query construction by using Python and regular expressions, resulting in optimized code-base

PROJECTS

CamelTours | *Linux, Apache, MySQL, PHP, jQuery*   June 2020 – July 2020
- Contributed to the open-source software at the core of CamelTours, resulting in a 300% increase in monthly active users and a 250% increase in user-generated content
- Implemented new features such as offline access and push notifications, leading to a 55% increase in user retention
- Optimized the platform's performance, resulting in a 50% decrease in load times

JP Morgan & Chase | *Python, TypeScript, Git*   May 2020 – July 2020
- Updated broken client data feed script and implemented a chart feature on a trader's dashboard, allowing for improved identification of under/over-valued stocks by processing and analyzing data feeds of specific stocks
- Generated a live graph allowing traders to quickly and easily monitor and determine trading opportunities by identifying temporary weakening of correlation between stock prices, with a threshold of +/-10% of the 12-month historical average ratio

TECHNICAL SKILLS

Languages: Python, Java, C/C++, JavaScript, SQL (Postgres), NoSQL (MongoDB), Ruby, HTML/CSS, R
Frameworks: React, Node.js, Vue.js, Typescript, Flask, JUnit, Ruby on Rails
Developer Tools: Git, Docker, Express, Apache Spark, GCP, AWS, VS Code, Eclipse, JupyterLab
Libraries: Pandas, NumPy, Matplotlib, Tensorflow, PyTorch