

# Jay Yunas

+1 (646) 255-0291 | [jay@jayyunas.com](mailto:jay@jayyunas.com) | [linkedin.com/in/jayyunas](https://linkedin.com/in/jayyunas) | [github.com/jayyunas](https://github.com/jayyunas) | [jayyunas.com](https://jayyunas.com)

## EDUCATION

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### Connecticut College

*Bachelor of Arts in Computer Science; GPA: 3.40*

New London, CT

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

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### Associate Software Developer

*Systemsoft Inc.*

October 2022 – Present

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

*Connecticut College*

May 2021 – July 2021

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

*Tech Mahindra*

May 2019 – July 2019

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

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### 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

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**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