# Justas Stankevicius

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## Education

**University of Illinois at Chicago** — Chicago, IL
*Bachelor of Engineering in Computer Science, Minor in Mathematics; GPA: 4.00/4.00* — *Aug. 2019 – Dec. 2022*

## Technical Skills

**Languages**: Java, Python, C/C++, Go, SQL
**Tools/Frameworks**: Numpy, Keras, Tensorflow, Matplotlib, Docker, Google Cloud Platform, Git, Cypress, MongoDB

## Experience

**Software Engineer Intern** — May 2021 – Aug. 2021
*Paylocity* — *Remote*

- Worked on nearly all parts of the Paylocity Community platform, including web, mobile application, and the backend, utilizing JavaScript and .NET Core
- Created a MongoDB data access layer to enable document fetching and updating inside Cypress
- Implemented quick-response chips for birthdays on Paylocity's mobile application
- Wrote automated tests using Cypress and webdriver.io to ensure correct function of web/mobile components

**Undergraduate Research Assistant** — July 2020 – Present
*University of Illinois at Chicago* — *Chicago, IL*

- Worked with Dr. Brent Stephens to investigate application-level congestion collapse and overload conditions in distributed systems
- Built a configurable Python-based data pipeline to facilitate easy cluster deployment, benchmarking, teardown, and result processing/plotting for CockroachDB
- Wrote a high-performance load generator in Java to measure microsecond-resolution metrics like throughput and latency on Apache Solr

**Systems Programming Teaching Assistant** — Sep. 2021 – Present
*University of Illinois at Chicago* — *Chicago, IL*

- Coordinated lab and discussion sections for a systems programming class with 200+ students
- Held office hours to help students with assignments and exam preparation
- Helped students understand various low-level programming concepts like linking, virtual memory, and concurrency

## Publications

- J. Stankevicius, B. Stephens, "Benchmarking Tools Should Generate More Load: An Investigation into Application-Level Congestion Collapse." *In Submission.*

## Projects

**HTTP Benchmarking Tool** | *Java, Python, Numpy, Matplotlib* — Mar. 2021 – May 2021

- Developed Java-based load generator used to benchmark Apache Solr
- Analyzed request traces and extracted granular timeseries data on throughput, latency, and number of outstanding requests

**Code Assignment Website** | *Python, Flask, Google Cloud Platform* — Dec. 2018 – Mar. 2019

- Using Flask and the Google App Engine environment, built a website for teachers and students that would run students' submissions through Google Compute Engine
- Implemented automatic grading system that would grade students' programs based on program size, completion time, and output correctness

**Stock Day-Trading Bot** | *Python, Numpy, Keras, Matplotlib* — Jan. 2018 – May 2018

- Implemented Q-learning in Keras to train an agent to recognize short-term momentum in price movements, utilizing models like Black-Scholes and Merton jump-diffusion to generate training data
- Programmed simulations in which the agents were tested against real-world data
- Developed a web-based UI to monitor various training-critical metrics during simulations