Will Cygan

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wcygan.io

Education

University of Illinois at Chicago 2018 – 2021
BS Computer Science *Chicago, IL*

Experience

LinkedIn Feb. 2022 – Present
Software Engineer *Remote (Chicago, IL)*

- Backend Engineer on the LinkedIn Learning Online Monetization and Growth team
- Building APIs to integrate the Jobs platform within LinkedIn Learning
- Maintainer of an event-driven system that dynamically schedules and sends emails to customers. The system leverages Apache Kafka and Apache Samza to aggregate and coordinate messages across the system
- Member of the Java Performance Group at LinkedIn. In this group we learn about JVM internals like Garbage Collection and Tuning in order to improve application performance

BITS Laboratory Dec. 2020 – Dec. 2021
Student Researcher *Chicago, IL*

- Created a tool to construct program call-graphs by analyzing JVM bytecode with runtime reflection
- Enabled the improvement of code coverage through fuzz testing and property testing
- Our tool allows you to analyze a specific test and spot gaps in testing to improve your coverage by over 10%!
- Repository: github.com/bitslab/java-callgraph

Undergraduate Internships Jan. 2020 – Aug. 2021
Software Engineer Intern *San Francisco, CA – Chicago, IL*

- Completed internships at LinkedIn & Amazon during my undergraduate studies
- At LinkedIn I delivered user-facing features to discover content on flagship feed & learning homepage. These features improved relevance & drove engagement for users focused on career growth
- At Amazon I designed a system to automate the deployment of Machine Learning model configurations, reducing time-to-market for our engineers & improving our development workflow

Projects

Turtle

- A Rust CLI app for generative art which produces unique, complex structures like fractals, trees, and forests
- Repository: github.com/wcygan/turtle

Practice

- A Java library for data structures, algorithms, and concurrency mechanisms. Contains implementations of concurrent data structures like ArrayBlockingQueue, NonBlockingQueue, and NonBlockingStack
- Repository: github.com/wcygan/Practice

Skills

Languages Java, Rust, Go, Scala, Python, C, C++, SQL, JavaScript, HTML, CSS
Tools JVM Ecosystem, Linux, Git, Kafka, Samza, Spring, Gradle, Maven, MySQL, Node.js, Ember.js, React.js
Interests Backend Development, API Design, Systems Software, Distributed Computing