

Collin Kleest

SOFTWARE ENGINEER · GREATER PHILADELPHIA AREA

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Work Experience

The Vanguard Group - Technology Leadership Program

Malvern, PA

DEVOPS CLOUD ENGINEER

Apr. 2021 - Current

- Supported 10000+ containerized mission-critical business applications by completing feature and escalated tickets.
- Contributed to making the ECS platform more stable and reliable, by reducing cloud dependencies.
- Engineered a cloud-native platform insights tool that helped product teams and clients reduce their ECS costs.

BACKEND ENGINEER

Aug. 2021 - Apr. 2022

- Developed Java Rest APIs that served internal consumers, specifically APIs that delivered financial fund data. Optimized queries and algorithms to decrease response times and improve application performance.
- Designed and implemented cloud-native ETL jobs and event-driven microservice architecture.
- Retired, refactored and condensed multiple REST APIs saving around 50000 USD a year.

APPLICATION ENGINEER INTERN

Jun. 2021 - Aug. 2021

- Contributed to a full-stack Angular-based College Cost Estimator web app that helps advisors and clients get an estimated cost of college for their children.
- Lead development of an electron application with a group of interns that manages Vanguard's community gardens.

Pfizer

Collegeville, PA

ASSOCIATE SOFTWARE ENGINEER

Aug. 2020 - Dec. 2020

- Contributed to a web based micro-service data processing platform that is utilized by finance and manufacturing teams.
- Improved data-processing services that were used by manufacturing facilities producing COVID-19 vaccinations.

SOFTWARE ENGINEER INTERN

Jun. 2020 - Aug. 2020

- Engineered a full stack web application that dynamically updates API documentation with latest releases of a set of micro-services
- Designed a front-end user interface using individual React components and built out a back-end that exposes a spring boot rest API

Education

The Pennsylvania State University

State College, PA

B.S. IN INFO SCIENCE AND TECHNOLOGY, FOCUS IN SOFTWARE ENGINEERING

Jun. 2018 - May. 2021

- **GPA:** Cumulative - 3.89, Major GPA - 4.0
- **Accolades:** Deans list every year, Richard C. Assetto, Robert and Tammy Morgan Trustee, and Hendrickson Family Trustee Scholarship
- President and Co-Founder of Emerging Technology Club
- Java Learning Assistant, Learning Assistant Coordinator, and Security Instructional Assistant

Skills

PROGRAMMING LANGUAGES: JAVA, PYTHON, TYPESCRIPT/JAVASCRIPT, SQL

WEB TECHNOLOGIES: REACT, ANGULAR, SASS, EXPRESS, NEST.JS, REDUX, MOBX, WEB COMPONENTS

TOOLS: GIT, DOCKER, MONGODB, POSTMAN, JINJA, BEHAVE, CUCUMBER, PYTEST, JUNIT, JEST, CYPRESS

OTHER RELEVANT SKILLS: AWS, CI/CD, PROBLEM SOLVING, COMMUNICATION, COLLABORATION, LEADERSHIP

Project

RCE (REMOTE CODE EXECUTOR ENGINE) [HTTPS://GITHUB.COM/COLLINKLEEST/RCE](https://github.com/collinkleest/rce)

- RCE is a remote code executor application written in Typescript and Node.js. It exposes an API and websocket integration.
- It has a frontend that supports real-time updates like a google doc and supports many different programming languages.
- Behind the scenes RCE builds docker containers to run each code submission and returns standard output and error output.

VARIA (DISCORD MUSIC BOT) [HTTPS://GITHUB.COM/COLLINKLEEST/VARIA](https://github.com/collinkleest/varia)

- Varia is a discord music bot written in typescript and uses discord.js to communicate with the discord api.
- Varia is scalable and can run in thousands of discord servers, it allows users to play any music that is available via the Youtube API.
- Varia uses websockets to stream the music, and provides playing, queuing, pausing, stopping, searching, skipping and more functionality.