

RYTIS KAZIMIERAS JONYNAS

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EDUCATION

Yale-NUS College, Bachelor of Science with Honours
Major in Mathematical, Computational and Statistical Sciences

Singapore, SG
Aug 2017 - May 2022

- Notable Coursework: Data Structures and Algorithms; Parallel and Concurrent Programming; Programming Language Design and Implementation; Quantum Information and Computation; Software Engineering.
- Peer tutor for Software Engineering (Fall 2020 and 2021) and C: Programming Language (Fall 2021) courses.
- Thesis: Information Density Maximization in Artificial DNA storage systems.

Harvard University, Visiting Undergraduate Student

Jan 2020 - May 2020

- Notable Coursework: Biological & Artificial Intelligence, Graph Theory and Combinatorics, Introduction to Machine Learning (MIT).

EXPERIENCE

Backend Intern (Developer tools)

Remote / Singapore, SG
June 2021 - July 2021

Ahrefs

Technologies: OCaml.

- Improved issue visibility, prioritization, and developer response times through use of a graph-like structure to automatically capture dependency relationships between incident tickets and organize them by root cause.
- Implemented customization options for a staging environment of an in-house incident tracking tool, thus enabling more convenient and exhaustive local and remote testing.

Software Engineering Intern (Routing Team)

Vilnius, LT
Feb 2021 - May 2021

Trafi

Technologies: C#, Visual Studio.

- Improved regression testing of microservices by building a routing infrastructure integration testing library.
- Reduced garbage collection load and latency of whole system by splitting a data preparation module into a separate cron-like service.

PROJECTS

Web app for NLP analysis of a Reddit forum on financial bets ([Code](#))

Technologies: Flask, MongoDB, Google Cloud App Engine, React, Sentry SDK.

- Designed and optimized system architecture for a web app analyzing discussion trends from >200 posts and ~27k comments daily from r/WallStreetBets on Reddit. The website attracted >500 users and >1100 visits.
- Deployed the web app on Google Cloud AppEngine as multiple microservices (backend and NLP engine, reactive frontend app) with automatic real time error tracking (Sentry SDK) and extensive logging.

SKILLS

Programming languages

C#, Python, OCaml, Java, Scala, C++, R, Matlab, Coq.

Web Dev and Databases

Flask, Firebase, MongoDB, PostgreSQL.

Technologies

Linux, Bash, Docker, Git, CI/CD, Tensorflow, OpenCV,
Google Cloud (VMs, PaS, serverless), SSH, WebSockets, Android.

MISCELLANEOUS

- AI course instructor at InspiritAI (May 2021 - present).
- Citadel & CorrelationOne Terminal competition: Harvard/MIT Edition 2020 - 1st Runner-up of 40 teams ([Code](#)).
- Attended PLMW@POPL2021 (Programming Language Mentorship Workshop at Principles of Programming Languages).