

# Ethan Kripke

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## Education

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### Harvard University

- A.B. Candidate in Computer Science, Expected Graduation May 2020, GPA 3.5
- Selected Coursework: Data Structures & Algorithms, Systems Security, Systems Programming, Networks, Data Visualization, Data Science & Ethics, Functional Programming, Theory of Computation, Probability

## Work Experience

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### CORRUX GmbH - Backend & Data Intern

April–August 2019, Munich

- Developed a platform in Python to ingest, convert, and analyze CAN-bus data from industrial construction machinery
- Helped migrate backend from a monolithic architecture to micro-services, configured CI/CD with Azure Pipelines
- Set up a time-series database (InfluxDB) and developed its data pipeline, resulting in a 30x speedup over PostgreSQL
- Designed, installed, and troubleshooted custom industrial-grade telematics solutions

### Naval Surface Warfare Center - Software Intern

May–August 2019, Philadelphia

- Automated collation of data from destroyer-class ships, saving 7 person-hours/week
- Created tool for hardware engineers to view and compare interpreted ship data
- Tested ship control consoles, using simulated propulsion and electric plant signals

### Harvard Summer Coding Academy - Instructor

July 2017, Cambridge

- Designed lesson plans, gave lectures, and provided feedback for an introductory programming course for high school students.

## Leadership & Extra-Curricular Activities

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### The Hasty Pudding Theatricals - Vice President, Drummer

September 2016 – Present

- Oversee band, cast, tech crew, business staff, writing team, and alumni to create an original comedy drag musical for an audience of over 15,000 people each year.
- Manage financial and artistic arrangements, implement new positions and policies, negotiate compromises with professionals and the alumni graduate board

### Harvard Monday Jazz Band - Drummer, Librarian

September 2016 – Present

- Perform in Harvard's professionally directed, internationally touring jazz ensemble

## Languages/Skills

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Python (Flask, Pandas), C, HTML/CSS, Javascript (D3), AWS (S3, Lambda), Azure (Storage, DevOps, Pipelines), PostgreSQL, InfluxDB, Docker, Agile/Scrum