

Christopher Baillie Olin

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Bethesda, MD 20816

Education

University of Maryland

B.S. Computer Science, Magna Cum Laude

B.S. Mechanical Engineering, Magna Cum Laude

College Park, MD

GPA: 3.98

Dec. 2022

Skills

Languages: Python, JavaScript/TypeScript, SQL, Rust, Java, Ruby, C, C++, OCaml, Racket, WebAssembly, x86

Technologies: GitLab CI, Docker, Terraform, Helm, AWS, OpenAI, Dask, Flask, Plotly Dash, Django, NodeJS

Experience

Kroll Bond Rating Agency, Generative AI Content Creation Team

New York City, NY

Senior Data Engineer

July 2025 - present

- Develop a generative AI content creation application powered by OpenAI and Llama Index, to significantly increase ratings analysts' efficiency in drafting reports
- Drive company-wide strategy for authentication and authorization through active participation in a working group
- Contribute to a cross-team effort to provision infrastructure to allow the externalization of previously internal apps
- Commit to shared libraries and developer tooling projects used by all teams, increasing developer productivity and maintaining engineering best practices across the department
- Conduct Python knowledge assessments for the company's interview process and mentor new engineers to rapidly onboard and integrate them into the team

Kroll Bond Rating Agency, RMBS Team & Generative AI Content Creation Team

New York City, NY

Data Engineer

June 2023 - July 2025

- Led a small, high velocity engineering team and worked directly with internal stakeholders to provide ratings analysts with reliable, scalable access to a statistical model, enabling them to perform their jobs far more efficiently
- Created and maintained a full-stack application with a Plotly Dash UI, an ETL pipeline, and a microservice based model runtime leveraging Dask and serverless AWS compute products for high concurrency and cost optimization
- Managed continuous integration and infrastructure as code with GitLab CI, Docker, Terraform, and Helm

Kroll Bond Rating Agency, Data Engineering

New York City, NY

Data Engineering Intern

June - Aug. 2022

- Modified a Flask API code generator to add authentication with Auth0 to generated APIs
- Transitioned numerous outdated APIs to this dynamically generated architecture, eliminating boilerplate and enabling centralized updates to all APIs, saving hours of manual work

Amazon, Prime Video Live Monitoring

Seattle, WA

Software Engineering Intern

June - Aug. 2021

- Built an autoscaling video defect detector with AWS infrastructure and integrated it into a large production pipeline
- Demonstrated project success by presenting defects detected in production, impacting thousands of customers

Army Research Lab, E/H-Field Sensing Team

Adelphi, MD

Software Engineering Intern

June - Aug. 2020

- Engineered a Wide Area Network to securely connect a web of Internet of Things power sensors
- Designed a secure web portal with NodeJS to access multiple sensors' individual configurations and data

Projects

Wacket Programming Language

Racket, WebAssembly, JavaScript

- Co-created Wacket, a Lisp-inspired language with a compiler that targets WebAssembly by writing a lexer, parser, compiler, abstract syntax tree, and pretty printer in Racket, and a runtime system in JavaScript
- Source code and write up are available at <https://github.com/stefanhnts/wacket>

Personal Website - <https://olincb.me>

NextJS

- Developed a static personal website to share information about myself, my projects, and my resume, with content generated from markdown files, allowing updates to the site's content without changing code
- Leveraged NextJS to create the site and deployed it with AWS S3, CloudFront, and CloudFormation