Christopher Baillie Olin

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https://olincb.me | https://github.com/olincb
Washington, D.C.

Education

University of Maryland	College Park, MD
B.S. Computer Science, Magna Cum Laude	**GPA: 3.98**
B.S. Mechanical Engineering, Magna Cum Laude	Dec. 2022

Skills

Languages: Python, JavaScript/TypeScript, Rust, SQL, Java, Ruby, C, C++, OCaml, Racket, WebAssembly, x86
Technologies: MongoDB, Snowflake, GitLab CI, Terraform, Docker, Kubernetes, AWS, Dask, Flask, NodeJS

Experience

Kroll Bond Rating Agency, Generative AI Content Creation Team — New York City, NY
Senior Software Engineer — July 2025 - present
- Designed and developed a full-stack generative AI content creation platform, owning backend services and APIs built on OpenAI and LlamaIndex, cutting analysts' first-draft writing time by over 50%
- Played a key role in shaping company-wide authentication and authorization strategy alongside security engineers and technical leadership, and designed platform- and service-level Auth0 integrations
- Contributed to the design and implementation of an extensible, event-driven system that dynamically provisions isolated, per-client infrastructure stacks for multiple applications in response to Salesforce contract state changes
- Built and maintained shared libraries and developer tooling used across 10+ engineering teams, improving platform maintainability and reinforcing engineering best practices
- Conducted technical interviews and mentored engineers, helping shape engineering hiring standards

Kroll Bond Rating Agency, RMBS Team & Generative AI Content Creation Team — New York City, NY
Software Engineer — June 2023 - July 2025
- Led a high-velocity engineering team delivering reliable, scalable, and auditable access to core statistical models
- Designed and implemented a microservice-based backend for statistical model execution that supports high-concurrency workloads via Dask and serverless AWS infrastructure, processing up to ~1M records and reducing end-to-end runtime from hours to minutes while optimizing cost
- Maintained CI/CD pipelines and infrastructure-as-code using GitLab CI, Terraform, Docker, and Helm

Kroll Bond Rating Agency, Data Engineering — New York City, NY
Software Engineering Intern — June - Aug. 2022
- Extended a Flask-based API code generator to add authentication with Auth0 to generated APIs
- Migrated numerous legacy APIs to a dynamically generated architecture, eliminating boilerplate and enabling centralized updates across services, saving hours of manual engineering effort

Amazon, Prime Video Live Monitoring — Seattle, WA
Software Engineering Intern — June - Aug. 2021
- Developed an autoscaling video defect detection service on AWS and integrated it into a production pipeline
- Validated the system in production by identifying real video defects affecting thousands of customers

Army Research Lab, E/H-Field Sensing Team — Adelphi, MD
Software Engineering Intern — June - Aug. 2020
- Implemented a secure wide-area network to connect a distributed fleet of Internet of Things power sensors
- Designed a secure NodeJS-based web portal for accessing sensor configurations and data

Projects

Wacket Programming Language — Racket, WebAssembly, JavaScript
- Co-created Wacket, a Lisp-inspired programming language with a compiler targeting WebAssembly, implementing the lexer, parser, compiler, and abstract syntax tree in Racket, and a runtime system in JavaScript
- Source code and write-up: https://github.com/stefanhts/wacket

Personal Website - https://olincb.me — NextJS
- Implemented a static site with markdown-driven content and automated deployment via GitHub Actions to AWS S3, CloudFront, and CloudFormation