

Robert L. Burris

Software Engineer at Palantir

New York, New York
☎ (425)-698-9106
✉ roblburris@gmail.com
🌐 roblburris.com
📱 [roblburris](https://www.linkedin.com/in/roblburris)

Education

- 2019–2023 **Bachelor's of Science**, *University of Washington, Computer Science*, Cumulative GPA: 3.67/4.00.
Academic Achievements: University of Washington Dean's List: Autumn 2019, Spring 2020 - Spring 2023.
Relevant Coursework: Graduate Machine Learning, Distributed Systems, Data Center Systems, Operating Systems, Networks, Compilers, Computational Complexity, Intro to Digital Design, Intro to Data Management

Work Experience

- July 2023 - **Software Engineer**, *Palantir*, New York, New York.
Present - Palantir Foundry: Ontology Backend.
- June 2022 - **Software Engineer Intern**, *Google*, Pittsburgh, Pennsylvania.
September 2022 - Worked on Flex-SRE, a Google Cloud Technical Infrastructure team responsible for managing Borg/Kubernetes, Colossus, Spanner, BigTable, and other shared resource allocations.
- Expanded monitoring coverage from 50% to 100% by implementing a gRPC server in Go that executes sample workflows to perform liveness checks on the command line tool used to manage resource allocations.
- Implemented a deterministic load generator in C and Go for compute resources (CPU, RAM, Disk) used to validate allocation metrics.
- March 2022 - **Software Engineer Intern**, *Intuit*, Mountain View, California.
June 2022 - Added two new email notifications to the QuickBooks Live platform to help improve client experiences.
- Built email templates in HTML and used Camunda and Apache Spark+Flink+Kafka to define the logic necessary to send notifications to clients.
- March 2022 - **Undergraduate Teaching Aide**, *Allen School of Computer Science and Engineering*, Seattle, Washington.
June 2023 - Head Teaching Aide for Introduction to Compiler Construction (CSE 401).
- Co-led a weekly section with another TA, hosted weekly office hours, facilitated grading, and helped students with the term-long project of building a Java compiler.

Technical Projects

- Python + **pydproc - Automated API Data Collection**, *pip install pydproc*.
Docker - Designed and coauthored a Python3 package (pydproc) with over 700 downloads that simplifies repeated data collection from an API using Python and YAML.
- Implemented a validation script that checks required API fields and desired client data, a filter script that removes extraneous data from API calls, and a way for a client to build their own YAML config file via a command line interface.
- Python + **AudioBolt - Live Subtitling**, *Built at TreeHacks 2021*.
Electron.js - Developed an Electron.js desktop app that uses DeepSpeech2 (state the of art speech recognition model) to provide live subtitling for any app playing audio
- Set up Google Cloud environment for receiving inferences and tweaked a simple Socket Server in Python to accept client audio via a TCP stream
- Go + **FaceNote - Facial Recognition App**, *Built at Dubhacks 2020*.
MongoDB + - Developed an Electron.js desktop app that uses facial recognition to identify users in a Zoom call.
Electron.js - Implemented a MongoDB database interface for storing and retrieving identified faces through HTTP requests in Go.

Technical Skills

Languages C, C++, Java, Python, Go, SystemVerilog, JavaScript, TypeScript
Technologies PyTorch, SQL, Docker, React, Node.js, Express, Next.js, HTML/CSS, Git, Unix/Linux, LaTeX