

Employment

Senior Software Engineer

 **Dropbox** (Remote, NY)**Aug 2021 - Present**

→ **Core Sync:**

As a member of the Core Sync team I am working on the Dropbox sync engine using RUST. The sync engine is at the core of most Dropbox products. The team is distributed across various states.

Software Engineer

 **Google** (Remote, NY)**Jun 2020 - Aug 2021**

→ **Unified Traffic Engineering** (Networking Infrastructure):

As a tech lead, I designed and implemented a real-time monitoring system (C++) for validating network database consistency. The system also reported pathing quality metrics, which significantly enhanced visibility into system internals and minimized reaction time to outages by alerting stakeholders. The team was based in Sunnyvale, CA.

Senior Software Engineer

 **Bloomberg LP** (New York, NY)**Jul 2017 - Jul 2020**

→ **Gateway Architecture** (Middleware, Software Infrastructure):

Modernization of legacy *Bloomberg gateways* and implementation of low-level network protocols. (C++)

→ **Publish/Subscribe middleware** (Middleware, Software Infrastructure):

Lead several projects for this mission critical and cross-platform system. Responsible for all stages of development, from designing new features to deployment and user support. (C++)

Designed and implemented a low-level thread-safe *subscription API*. (C++)

Designed and implemented an app for subscription configuration and routing validation. (C++, JAVASCRIPT)

Revamped various side-projects related to this framework to support power users. (C++)

Software Engineer

 **Bloomberg LP** (London, UK)**Nov 2014 - Jul 2017**

→ **Data Processing Framework** (Software Infrastructure):

Maintenance, extension and optimization of *DataLayer*. A proprietary mission critical system. (C++)

Designed and implemented *profiler* and *replay debugger* for the aforementioned framework. (C++, JAVASCRIPT)

→ **Other notable projects:**

JavaScript *transpiler* for module inlining and static analysis. (JAVASCRIPT)

Designed *HBase* database for historical financial data and implemented map-reduce Hadoop jobs. (JAVA)

Education

MSc in Software Engineering

 **Imperial College London** (UK)**Sep 2013 - Sep 2014**

- **Thesis:** *Parallel Architecture for Large-scale Spiking Neural Network Simulation*. Implemented an Open MPI layer on top of NeMo (spiking neural network simulator) to enable the usage of multiple CPUs/GPUs in an effort to aid the neuroscience community.

Engineer's Degree (Dipl.-Ing)

 **Technical University Crete** (GR)**Sep 2007 - Jul 2013**

- **Title:** Engineer's degree in Electronic and Computer Engineering

- **GPA:** 8.6/10 (Excellent), Top 7% since 1990

- **Thesis:** *Model Driven Development in Wireless Sensor Networks*. Designed a Domain Specific Language (DSL) and implemented a model compiler which generated NesC code from the DSL code. Contributed to WSN-DPCM, a project that spans across several technical universities and companies, funded by ARTEMIS.

- **Awards:** Multiple scholarships, including the Limmat Stiftung Excellence Awards

Open Source Contributions

- Implemented a Gossip protocol algorithm, known as Randomized Rumor Spreading, and integrated it into a very well-known cryptocurrency project (C++). This replaced the pre-existing naive $\mathcal{O}(n^2)$ network broadcasting mechanism with a mechanism requiring only $\mathcal{O}(n \ln n \ln n)$ transmissions.
- Implemented a hardware wallet application to securely store and transact with the crypto-asset.