

Lee Danilek

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WORK EXPERIENCE

Dropbox, Software Engineer IC3 June 2018 - Present
Filesystem team

Led a squad of 4 engineers to build ObjectTreeDeltaList, a server to compute changes in a tree of shared folders, directories, and files, between two points in time. ObjectTreeDeltaList will power Dropbox Sync to materialize edits, moves, ACL changes, etc. with a simpler API and fewer edge cases

Migrated ACL changes to a new service, that validates requests and writes to a new versioned data model

Deployed the Sequencer, a system that makes all filesystem reads and writes use Hybrid Logical Clocks. Now snapshot reads of filesystem trees spanning multiple shards are repeatable and consistent

Restorations team

Rewrote Vacuuming Policy in Go, to reliably and quickly compute how much historical user data is inaccessible and may be deleted

Ecosystem team

Built integrations to sync files with DocuSign and Salesforce Marketing Cloud. This involved building OAuth and preventing CSRF attacks with React and web endpoints, while on the backend sending and receiving files from third party companies

Dropbox, Software Engineering Intern May 2017 - August 2017
Implemented guard-rails to isolate and enable Spark, a data analysis framework, for users of Dropbox's internal analytics platform

Google, Software Engineering Intern May 2016 - August 2016
Developed a durable storage layer as an iOS framework for Google's iOS apps

Yale Student Technology Collaborative, iOS Tech Lead January 2015 - April 2018
Led a team of 5 to develop Yale's official iOS apps, YalePublic and YaleMobile

Yale Computer Science Department, Teaching Assistant February 2015 - April 2018
For the classes CS50, an introductory course; CS223, data structures; CS365, algorithms; CS323, systems programming; and CS468, computational complexity

EDUCATION

Yale University, Computer Science BS/MS, Mathematics BS. *Cum Laude* August 2014 - May 2018
Senior project: Verified Compiler from a Subset of C to Ethereum Bytecode with the founders of CertiK
www.leedanilek.com/thesis.pdf

PERSONAL PROJECTS

Physics labs January 2014 - June 2014
Build simulations for physical collisions, gravity, springs, and bridges, hosted at www.leedanilek.com/physics

Released 8 iOS apps under Ship Shape Apps: www.leedanilek.com/ios June 2011 - April 2017
Color Identify: Names colors in photos or camera, for the colorblind
Multi-Calc: Math helper from unit conversions to parametric graphs and derivatives

Languages: Fluent in Python, Go, C. Proficient in Objective-C, Swift, Typescript, Javascript, Java, Coq
Technologies: gRPC, Protocol Buffers, LaTeX, MySQL, Bazel, Git, React, iOS