Daniel Oh

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EDUCATION

Northwestern University — BS/MS in Computer Science (GPA: 3.8/4.0)   Sep '18 – Mar '22

EXPERIENCE

Cash App — Software Engineer   Apr '22 – Present
- Led a cross-functional team of four senior/staff engineers (both server & client) in the design & implementation of a feature that allows removal of loading spinners between screens in Cash App. Estimated to reduce latency by >70% per pre-existing spinner.
- Independently designed & implemented a feature that allows owning teams to deprecate Cash App features & show a custom message to customers who try to launch the deprecated feature.
- Contributed to improvement & maintenance of Misk, Cash App's open source Kotlin microservice framework used by the vast majority of Cash App services.
- Continually contributed to a company-wide initiative to migrate & refactor code from a large monorepo to different microservices.
- Took initiative to ensure service availability & stability by writing internal docs/runbooks & creating Datadog dashboards/monitors; consistently used daily by owning teams to debug customer issues & monitor daily service deployments.
- Facilitated handoff of a crucial eventing service from my team to another team.

Cash App — Software Engineer Intern   Jun '21 – Sep '21
- Built a custom internal tool w/ Kotlin, React, & DynamoDB for quick & efficient lookup of millions of Cash App payment entities/transactions; used daily by ~500 Cash engineers.
- Added to existing Java service to prevent notifications from being sent to stale mobile device aliases; projected to save ~3000 QPS & $8-12 million over the next twelve months.
- Independently owned from creation to deployment the development of a new service that aims to be SSOT for alias data across all of Cash; consumes Kafka events regarding aliases, optimally materializes data in DynamoDB, & exposes gRPC endpoints for querying aliases.

Unfound.app — Full Stack Developer   Oct '20 – Jun '21
- Built a comprehensive REST API w/ Node.js & PostgreSQL for the frontend app to use.
- Implemented third-party services w/ React Native e.g. Google SSO & Mapbox geocoding.
- Fixed Android specific bugs & oversaw the whole process of release onto Google Play.

PROJECTS

MapReduce — Sequential & distributed MapReduce programs built w/ Go & RPCs. bit.ly/3ucGyTb
Search Engine— News article search engine replica built w/ Java, React, & ES. bit.ly/2OeN7F7
Sorting Visualizer — React SPA for visualizing common sorting algorithms. bit.ly/3rjOdNI
Conversational Cookbook — Python NLP custom Allrecipes recipe maker. https://bit.ly/3HYftdo
LLVM Transformations — C++ LLVM compiler pass. Constant propagation/folding. bit.ly/31gXDi

SKILLS

Kotlin, Java, Python, Go, JavaScript, TypeScript, React, SQL, DynamoDB, Kafka, Elasticsearch