

# Dixon Cheung

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## Summary

- Experienced in architecting scalable solutions using microservices and RPCs
- Leveraged automation to eliminate developer pain points for improved productivity
- Able to independently scope vague projects into concrete action items and execute
- Advocate for product excellence; leading to a better user experience and codebase
- **Technologies:** C++, Golang, JavaScript, SQL, Python, gRPC, git, Angular2

## Professional History

### Software Engineer, Tools and Infrastructure

Google Inc. | Mountain View, CA, USA | June 2017 - Present

- Redesigned the tool, which establishes a releasable version, for increased user base
  - Grew user adoption of the tool to 200+ teams
  - Introduced caching to improve lookups latency
  - Design a roadmap to integrate the tool into Google's standard releasing platform
  - Helped onboard 50+ teams via updated documentation
- Added test coverage by blocking releases with an automated end-to-end diff test
  - New custom infrastructure components were required to be built; including a custom dataset sampler which ensures the inclusion of known rare samples and a custom pub-sub replayer job to send requests to the system under test (SUT)
- Decreased CI breakages by 40% by automatically enforcing development guidelines
  - Implemented a presubmit check for human errors and malicious usage
- Added coverage for multiple teams by diffing classification results between ML models
- Encouraged better release automation for dev teams by surfacing release metrics
  - Created app to allow for custom release goal setting for a wide variety of teams
- Advised and migrated the client team to use Google's standard releasing platform
- Influenced team culture with improved developer practices by surfacing problems through developer metrics, test infrastructure problems, etc. to the client team

### Software Engineer

Index Exchange | Waterloo, ON, Canada | June 2016 - May 2017

- Designed an aggregation service for stats information in Go
- Sped up file distribution to keep servers up-to-date by optimizing the architecture
- Introduced proper task tracking and identified areas of technical debt during a transition
- Added a private NPM registry to encourage good software development practices

## Education

### Bachelor of Applied Science, Honours Computer Engineering

University of Waterloo | Class of 2016