

# Artur Tarasenko | Software Engineer

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## Professional Experience

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### Google

Atlanta, GA

Software Engineer III (L4), Play Analytics Engineering Productivity

March 2022 - March 2024

- Launched Java-based language-agnostic database schema minimization tool for unit tests
  - Reduced unit test runtime by up to 34%, dropped test flake rate by up to 93%
  - Led demos and seminars across Google Play Analytics org and wrote documentation on tool usage
  - Solved common testing issue, adopted by teams outside of Google Play less than one month after release
  - Added to company-wide utilities for F1, Google's in-house distributed SQL database
- Trained in interviewing candidates for Google's onsite interviews
- Coached and mentored junior engineers through technical hurdles and team communication challenges
- Constructed end-to-end testing for Java-based data analytics pipelines, reducing development time
  - Mocked service endpoints and GCP Spanner databases to run test hermetically
- Produced data-diffing tool for filtered data to ensure privacy compliance
  - Prepared developers for downstream data changes resulting from EU Digital Markets Act enforcement

### Itential

Atlanta, GA

Software Engineer, Labs

March 2021 - January 2022

- Operated within R&D team to build Single Sign-On from Itential's new cloud offering to a learning portal
  - Created AWS Lambda service to verify user stored credentials against Keycloak IAM instance
  - Added additional Lambda service to generate temporary sign-in link to redirect to the learning portal
  - Orchestrated the two services to create an API endpoint with AWS API Gateway
- Expanded core product's second-gen version of extensions with new features and improvements
  - Enabled users to use SSL options for accessing APIs
  - Improved readability of API import errors, where previously errors wouldn't even mention line numbers

### Microsoft

Redmond, WA

Software Engineer, Office Developer Extensibility

June 2018 - March 2021

- Built sophisticated linting tool to guide best-practices while developing with Office.js
  - Dynamically constructs call graph of file to accommodate complex code structures
  - Implemented Typescript-ESLint for ease of integration for other developers
  - Leveraged Typescript AST format to call out improper function calls
- Produced tool to convert JavaScript unit tests written in one API format to another
  - Replaced code statements with equivalent new format statements based on syntax patterns
  - Overhauled thousands of tests written with varied styles to new format
- Composed automated performance testing suite for developers to track performance of Office.js
  - Leveraged Mocha, Node.js, and XPerf to track CPU and memory usage, disk IO, and time
  - Generated final report file parsed for analysis by PowerBI
  - Developed for extensibility, so others can write custom scenarios for testing
- Collaborated with Office Native Runtime team to create testing tools and resolve C++ bugs
- Instrumented Office.js with telemetry to track performance gains with real-time report in Power BI

## Skills

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Java, Python, JavaScript, TypeScript, Node.js, Go, GCP, GCP Spanner, Protocol Buffers, gRPC, Guice, Guava, AWS, AWS Lambda Functions, AWS S3, MongoDB, NoSQL, Kubernetes, React, React Native, HTTP, JSON, XML, Mocha, Bazel, Serverless, ESLint, Typescript-ESLint, C#, ASP.NET, AngularJS, SQL, C, Git, Linux, Windows, Autodesk Inventor, AutoCAD, LaTeX, Russian

## Education

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### Georgia Institute of Technology

*Bachelor of Computer Science*

**Atlanta, GA**

*August 2015 - May 2018*

- Specializations in Theory and Intelligence
- Honors Program
- Semester study abroad at Hong Kong University of Science and Technology
- Graduated one year early

## Internships

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### Software Engineering Intern

*Ultimate Software*

**Weston, FL**

*May 2017 - August 2017*

- Improved payroll tax management suite that managed, calculated, and e-filed for clients
- Embedded alongside full-time developers in Kanban Agile environment
- Full-stack with C# for frontend and tax logic and SQL backend

### Software Engineering Intern

*The Home Depot*

**Marietta, GA**

*May 2016 - August 2016*

- Replaced costly manual faxing between attorneys with Angular web app supplier onboarding tool
  - Saved over \$100,000 per year and adopted by every single supplier for The Home Depot
- Replaced COBOL finance tool with Angular web app using microservice architecture
- Implemented AngularJS, Java, and DB2 in a test-driven development environment