

Artur Tarasenko | Software Engineer

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Professional Experience

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

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

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

Ultimate Software

Software Engineering Intern

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

The Home Depot

Software Engineering Intern

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