

Artur Tarasenko | Software Engineer

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Professional Experience

Google

Atlanta, GA

Software Engineer III, Play Analytics Engineering Productivity

March 2022 - March 2024

- Developed Bazel-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 multiple seminars across Google Play Analytics org and wrote documentation on tool usage
 - Solved common testing issue, used by teams outside of Google Play less than a month after release
 - Added to company-wide utils for F1, Google's in-house distributed SQL database
- Trained in interviewing candidates for Google's onsite interviews
- Mentored junior engineers through engineering and team communication challenges
- Constructed end-to-end testing for data analytics pipelines, reducing dev time
 - Mocked service endpoints and GCP Spanner databases to run test hermetically
- Created data-diffing tool for filtered data to ensure privacy compliance
 - Prepared developers for EU Digital Markets Act enforcement

Itential

Atlanta, GA

Software Engineer, Labs

March 2021 - January 2022

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

Microsoft

Redmond, WA

Software Engineer

June 2018 - March 2021

- Built sophisticated linter to guide best-practices while developing with Office.js
 - Dynamically constructs call graph of file to accommodate complex code structures
 - Utilized Typescript-ESLint for ease of integration for other developers
 - Leveraged Typescript AST format to call out improper function calls
- Developed tool to convert 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 over several years to new format
- Created 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 that can be plugged into PowerBI for analysis
 - Developed for extensibility, so others can write their own 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
 - Displayed data with real-time report in Power BI

Skills

Java, Python, GCP, Javascript, Typescript, Node.js, MongoDB, AWS, NoSQL, React, React Native, Mocha, Bazel, Serverless, ESLint, Typescript-ESLint, C#, Python, ASP.NET, AngularJS, SQL, C, Git, Linux, Autodesk Inventor, AutoCAD, LaTeX, Russian

Education

Georgia Institute of Technology

Bachelor of Computer Science

2015 - 2018

- Specializations in Theory and Intelligence
- Honors Program
- Spring 2017 study abroad at Hong Kong University of Science and Technology
- Graduated one year early

Internships

Software Engineering Intern

Ultimate Software

Summer 2017

- Developed payroll tax management suite
 - Managed, calculated, and filed payroll tax for clients with our product
 - Operated for all layers of federal, state, and local tax
 - Filed electronically, or generated printable copies when tax agency didn't support e-filing
- Worked alongside full-time developers in Kanban Agile environment
 - Code in production
 - Used Visual Studio 2017, TeamCity, JIRA in workflow
- Developed in full-stack with C# for frontend and tax logic and a SQL backend

Software Engineering Intern

The Home Depot

Summer 2016

- Developed supplier onboarding tool
 - Replaced costly manual faxing between attorneys with Angular webapp
 - Saved over \$100,000 per year
 - Used currently with every single supplier for The Home Depot
- Replaced COBOL finance tool with Angular webapp
 - Decreased human error through automation
 - Combined several separate tools with microservices architecture
- Worked alongside full-time developers in XP environment
 - Code in production
 - Tested continuously with strict test-driven development
- Developed in full-stack with AngularJS frontend, Java middleware, and DB2 backend