Artur Tarasenko | Software Engineer

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Professional Experience

Google

Software Engineer III   *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

Software Engineer   *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

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*

- Major GPA: 3.12, Overall GPA: 3.09
- Specializations in Theory and Intelligence
- Honors Program
- 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