Christopher Williams

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Experience

Axway

Principal Software Architect II

March 2021 - Present

- Significant performance improvements in Eclipse-based IDE for API Gateway
  - OSGI-specific classloader fixes
  - Improved algorithms for topological sorting and cycle detection of policy graph(s)
- Architectural changes/improvments for handoff of Titanium to open source community
  - Hosting assets via Github release, updating CLI
  - Replacing https://docs.appcelerator.com with new updated doc website at https://titaniumsdk.com
  - Extending build/CI to use Github runners

Principal Software Engineer II

Jan 2016 - March 2021 (5 years +)

- Worked across iOS, Android, and Windows SDK platforms for Appcelerator Titanium - both in JavaScript and each platform's native language (Obj-C, Java and C++, respectively).
- Wrote custom test framework and suite for automated testing of Titanium SDK APIs and native modules across iPad/iPhone simulators and devices; macOS Catalyst apps; Android emulators and devices; Windows Phone emulator and Universal Windows apps.
- Automated build/release of SDK, native modules, and dozens of npm packages
- Automated and updated doc generation and conversion process from Confluence to legacy JSDuck website and new Vue/Markdown replacement
- Generated custom tooling to lint API docs to help enforce API consistency; additional scripts to generate automated API tests from API docs; rewrote legacy build process from Python scripts to Node.js based JavaScript.
- Instituted and maintained a ~25 node Jenkins-based CI/CD infrastructure, maintaining child nodes with custom chef cookbooks. Evolved CI nodes to use newer/varying versions of Xcode/Visual Studio/Android SDK/NDK. Automated setup/configuration of build nodes from scratch OS versus special manually maintained single build box.
- Drove usage and enforcement of code quality, formatting, linting and developmental tools using clang-format, danger.js, eslint, husky, lint-staged, commitizen, etc.

Appcelerator

Engineering Tech Lead

Sep 2012 - Jan 2016 (3 years 5 months)

- Tech lead for the Studio IDEs: Appcelerator, Titanium and Aptana.
- Initial implementation of Hyperloop for Android - exposing native (Java) Android & 3rd party APIs to Titanium SDK's JS environment.
- One of the engineers responsible for adding Windows Phone and Desktop SDK support to Appcelerator Titanium's supported platforms.
- Worked cross-product on Studio, Android SDK, iOS SDK, and Windows SDKs.

Senior Software Engineer

Jan 2011 - Aug 2012 (1 year 8 months)

Senior developer on Appcelerator, Titanium, and Aptana Studio products - IDEs built on top of Eclipse with varying branding and toolsets offered (for languages such as JS, Ruby, PHP, Python).

Aptana

Senior Software Engineer

May 2007 - Jan 2011 (3 years 9 months)

- Solo developer on Aptana RadRails - a Rails-focused IDE built on top of Eclipse and Aptana Studio, which added Ruby language support and tooling.
- Rewrite of Aptana Studio for v3 adding custom git support
- Initial POC of backend service for on-demand cloud hosting

Education

RIT Rochester Institute of Technology

Bachelor of Science (B.S.), Computer Science 1999 - 2003

Skills

- JavaScript / Java / Ruby / Obj-C / C++ / Groovy / Object Oriented Design, Git, Eclipse / OSGI, REST, Agile Methodologies / Scrum, Software Development