

ROBERT HEDIN GARDNER

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Skills

- Extensive experience with C++, Python, and Rust. Limited experience with C#, Scala, Ruby, Swift, and Java.
- Microsoft Bond serialization framework, COM (Component Object Model), Django
- Microsoft Windows, macOS, Linux (Ubuntu)
- git, vim, WinDbg, Windows Performance Analyzer

Professional Experience

Microsoft Corporation

Redmond, WA

Software Engineer

September 2016 – Present

- Designed and implemented several features for the setting synchronization Windows service, written in C++ and heavily depending on COM and internal Windows libraries. My primary areas of expertise include authentication, conflict resolution, and end-to-end product integration.
- Designed and prototyped a complete rewrite of the core setting synchronization logic.
- Authored and standardized team release verification procedures.
- Created and maintained the team's feature work and bug triage dashboard to maintain control of active bugs and project deadlines.
- Active participant in code reviews, particularly concerning memory safety, edge cases, Modern C++ principles such as RAII and smart pointers, and style guideline suggestions to improve readability and maintainability.

Software Engineer Intern

May 2015 – August 2015

- Built WNS Reliability Portal website with to facilitate notification reliability investigations. Implemented with a JavaScript frontend and a C# ASP.NET MVC backend.
- Ported Ping Pong, a Windows Push Notification Services (WNS) reliability self-host app, from existing Windows 8.1 application to a Windows 10 Universal Windows Platform (UWP) application.

New York University, Computer Science Department

New York, NY

Junior Research Scientist

July 2014 – December 2014

- Implemented Python sample applications for Project Spartan, a distributed array language with a NumPy-like interface.
- Improved Spartan's front end by adding tests, fixing existing functions, and extending the API.

Kinetic Social, Inc.

New York, NY

Data Analyst Intern

February 2014 – May 2014

- Prototyped interactive data visualizations in the R programming language for sales team, now in production.

Honors and Awards

Best Software Project at Hoya Hacks (*Spring 2016*); 3rd place in hackNY Student Hackathon (*Spring 2015*); 3rd place in Deloitte Consulting NYU UG Case Competition (*January 2014*).

Additional Information

I enjoy contributing to open source software, especially projects in the Rust programming language. *buildOn* - Helped build schools in remote villages in Nicaragua and Mali; Climbed Mount Kilimanjaro and Inca Trail; extensive travel in Asia and Europe.

Education

New York University, College of Arts and Science, New York, NY

May 2016

Bachelor of Arts, Joint Major in Economics and Computer Science with Honors, Minor in Mathematics – GPA: 3.73, Cum Laude

Thesis: An Experimental Investigation into Corrupt Voting in Large, Online Committees

New York University, Madrid, Spain

July 2013