Jake Mathews

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Education

Wentworth Institute of Technology — Boston, MA   Expected Graduation: Aug 2018
Bachelor of Science in Computer Science   Minor in Physics
Honors: Wentworth Merit Scholarship

Skills

Software: Windows, Mac OS, Eclipse, IntelliJ, Visual Studio, Git
Programming Languages: Java, Dart, Python, C#, National Instruments Lab VIEW

Work Experience

Programming Intern at Schul International Company   May 2015 - Present

- Automated several industrial machines using both Lab VIEW and C#

- Wrote software in Dart for generating CSV reports on probe data generated by Renishaw probing packages on CNC machines

Integration Software Engineer Intern at Black Duck Software   Jan 2017 - Sept 2017

- Created plugins for build tools such as Nuget for .NET and pip/setuptools for Python for one of Black Duck's products *The Hub*

- Assisted in the creation of Hub Detect whose aim was to reduce integration time with build tools by reusing common code already developed in Java. This allowed Black Duck to retrieve information on their customer's dependencies from build tools for many programming languages

Projects

Project Lazer — https://github.com/GrayDragonSoftware/project-lazer-flutter
May 2018 - Present

- Allows user's to direct a lazer to point and known celestial objects with a cross platform mobile app on their phone

- Queries and parses data on celestial objects from the NASA Jet Propulsion Laboratory HORZIONS system

- Uses gyroscopes and the phone location to determine location and lazer orientation

- Future features include using API's to determine there are no aircraft near the expected path of the lazer