jwparsons.bitbucket.io
github.com/jwparsons

# James W. Parsons

(305) 282-0009
jwparsons@pm.me

## EMPLOYMENT

**Senior Software Engineer**  **Microsoft**  **Jan 2019 – Current**

- Developed several AI focused prototypes that used LLM tool calling, agentic systems, and stable diffusion as part of an AI incubation team in my organization.
- Released a PowerShell Module, GitHub Action, and Azure Pipelines Task that enables users to easily code-sign their files with the Azure Code Signing service.
- Collaborated with multiple teams to design and implement a set of property pages and WPF dialogs which are used to customize .NET MAUI projects in the Visual Studio IDE.
- Set up and optimized automated compliance tasks in 10+ GitHub repository CI/CD build systems.
- Managed a remote vendor team responsible for testing of Visual Studio features with 4 quarterly OKRs.
- Increased the pass rate of integration tests to 99.9% by establishing a process for resolving flaky test bugs.
- Mentored 16 college students on growth and resilience over 6 weeks through the MS Tech. Resilience program.
- Founded a social connection committee with 5 members to organize monthly remote-friendly team events.

**Graduate Research Assistant**  **E-Crime Investigative Tech. Lab**  **Jan 2017 – May 2018**

- Collaborated with a team of 11 to develop an iOS machine learning data extraction app for law enforcement that protects user privacy.
- Programmed 3 data extraction systems based on computer vision and file meta-data analysis using Swift.
- Designed and implemented 7+ iterations of a novel wordbreaking (NLP) algorithm using Python (w/ NLTK).

**Graduate Teaching Assistant**  **Florida State University**  **Jan 2016 – May 2018**

- Delivered lectures to classrooms of 50+ students.
- Guided students through course material in recitations and office hours.
- Courses: Intro. to Programming (C++), Object Oriented Programming (C++), Computer Organization, AI.

## EDUCATION

**Tallahassee, FL**  **Florida State University**  **May 2015 – Aug 2018**

- MS in Computer Science. GPA: 4.0.

**Boston, MA**  **Boston University**  **Sep 2011 – May 2015**

- BS in Biomedical Engineering with Minor in Mechanical Engineering.

## PUBLICATIONS

- Co-Author: **An Empirical Study on Efficiency of a Dictionary Based Viterbi Algorithm for Word Segmentation**. *2020 IEEE International Conference on Big Data, 2020*.
- Co-Author: **A Targeted Data Extraction System for Mobile Devices**. *Advances in Digital Forensics XV, 2019*.

## LANGUAGES AND TECHNOLOGIES

- OpenAI, Azure OpenAI, LLMs.
- C#, .NET, XAML, WPF, UWP, MAUI, Python, JavaScript, Dart, C++, Swift, Java, C, NodeJS, HTML, CSS.
- Visual Studio, XCode, Android Studio, iOS/Android Development, Unreal Engine 4, Unity 3D.
- Git, Mercurial, Perforce, UNIX, LaTeX, MATLAB, Azure DevOps, GitHub.