

## **Bruno Silva**

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### **EDUCATION**

#### **University of Nebraska - Lincoln, May 2019 (anticipated)**

Master of Science in Computer Science, GPA: 3.4

#### **University FUMEC, Brazil, August 2015**

Bachelor of Science in Computer Science, GPA: 3.7

### **SKILLS**

Full stack developer, MVP development, Java, Python, NodeJS, C#, C++, Android, ReactJS, AngularJS, MySQL, MongoDB, Spring Boot, Servlets, scikit-learn, Linux, AWS, OOP, RESTful APIs, TDD, Scrum

### **EXPERIENCE**

#### **E2 Lab, University of Nebraska - Lincoln**

**Aug 17 - Present**

Graduate Research Assistant

Lincoln, NE

- Developed a static analysis tool in C++ and Boost, which automatically detects API related issues in Android apps. The tool is more precise, consumes one-fourth of the memory, and it is five times faster than current state-of-the-art tools.
- Developed a tool in C# which automatically generates GUI test cases to increase the reliability of surgical robots.

#### **SBBI Lab, University of Nebraska - Lincoln**

**Jan 16 - Aug 17**

Graduate Research Assistant

Lincoln, NE

- Developed an application in Linux environment using Java, Spring Boot, MySQL, Android, Tensorflow, and Python, enabling automated food recognition, assessment, and dietary intervention through processing user food images and physical activities.
- Responsible for development, deployment, database design, system administration, and maintenance of biological web databases and bioinformatics tools. Used Python, NodeJS, PHP, AngularJS, Pearl, MySQL, and deployed on Linux and Amazon EC2.

#### **Villefort Consulting**

**Jan 13 - Aug 13**

Full Stack Software Engineer

Belo Horizonte, Brazil

- Worked as a team leader, introduced and managed agile development. Helped reduce the development time of a product in half, enabling its launch two months before the expected date.
- Developed an internal web application from scratch in Java, Spring Boot, AngularJS, and MySQL to manage employee documentation and payments. The application considerably reduced the use of paper and manual work for the human resources function.
- Developed and applied the TDD methodology to a web condominium management system, developed using Java, Servlet, Android, SQL Server, and JQuery.

#### **Havop Labs**

**Sep 12 - Jan 13**

Software Engineer Intern

Belo Horizonte, Brazil

- Worked in an agile environment to develop a mobile and web application from scratch that assesses fruit quality for farmers, using in Java, Spring, MySQL, Android, PHP, and JQuery.
- Applied testing techniques to uncover potential bugs and to ensure high coverage. Employed mutation testing to identify logic errors and low code coverage in our applications.

### **AWARDS**

Brazilian Government Science Without Borders scholarship

**Aug 13 - Dec 14**