Guillermo Narvaez-Paliza

Website: www.guillermonarvaez.com | GitHub: github.com/guillonapa 75 Brainerd Rd. Apt 511, Allston MA, 02134 | 949-285.2892 | guillonapa@gmail.com

EDUCATION

Brandeis University, Waltham, MA

May 2018

Bachelor of Science in **Computer Science** and **Physics** (Minor in **Mathematics**)

Web Development

Ruby on Rails

• Grunt, Webpack, etc.

MERN Stack

Testing• |Unit

MinitestMocha

GPA: 3.765 (Magna Cum Laude)

RELEVANT COURSES (Brandeis University) -

- Programming in Java
- Discrete Structures
- Software Entrepreneurship
- Data Structures and Algorithms
- Structure & Interpretation of Programs
- Scientific Data Processing
- · Operating Systems
- Electronics Laboratory
- Theory of Computation
- Database Management Systems
- Capstone: Software Engineering
- Advanced Programming Techniques
- Theory of Probability & Statistics
- Multivariable Calculus/Applied Linear Algebra

SKILLS -

Languages

- Java
- Ruby
- $\bullet \ \ JavaScript$
- HTML
- CSS

Source Control

- Git
- Svn

Other

- Eclipse Plug-in Development (extending the Eclipse framework)
- Linux/Unix
- Database Management (SQL)
- Data Structures
- Advanced Algorithms
- UX
- Eclipse
- Maven
- Docker

EXPERIENCE

TIBCO Software Inc., Software Engineer, Waltham, MA

July 2018 - Present

- Design and develop features for the TIBCO StreamBase Studio IDE (development done in Java, against Eclipse APIs)
- Author original design documents by interviewing field, customer and support databases
- Integrate current projects with other company products and/or support clients
- Design and create fully integrated demos used to demonstrate feature functionality and best practices
- Integrate and support features that enable the support team at TIBCO to address and troubleshoot complex customer issues
- · Provide support for the StreamBase Project by triaging and resolving support requests from customers and other engineers

Brandeis University, Data Structures & Algorithms Head Teaching Assistant, Waltham, MA

August 2017 - May 2018

- Organize and lead review sessions for undergrad students
- · Design data structures and algorithms problems and programming assignments for students
- Lead a group of six teaching assistants for a course with over 80 students

TIBCO Software Inc., Software Engineering Intern, Waltham, MA

June 2017 - August 2017

February 2016 - June 2017

- Developed the front and back end of a support wizard that enables users to troubleshoot software issues
- Shipped features for the company's event processing software using Java
- Designed and developed a live-analytics demo using stream processing
- · Customized the web interface used for the company's data visualization software

Brandeis University, Complex Fluids Researcher, Waltham, MA

Researched at Rogers Lab studying soft matter and self-assembly processes

- Used microscopy techniques in order to identify patterns in equilibrium states and phase transitions
- Used graphic methods to process and analyze experimental data
- · Wrote Matlab programs to simulate system behavior for any combination of physical parameters
- Derived mathematical models from fundamental chemical and physical principles to explain complex systems

LEADERSHIP / ACTIVITIES

Head Teaching Assistant at Brandeis University (Computer Science Dept.)

January 2018 - May 2018 August 2014 - May 2018

• Captain and member of the Brandeis Fencing Team (NCAA)

May 2009 - August 2015

• Captain of the Fencing State of Mexico Squad

February 2014 - August 2015

• **Member** of the Fencing National Team

HONORS / AWARDS

Michtom Prize for Academic Excellence in Computer Science

- · Excellence in Physics Faculty Award
- · All-Star First Team Athlete in Northeast Fencing Conference / Mexican Fencing National Champion
- All-Academic Honors (University Athletic Association)
- · All-Star First Team Athlete in Northeast Fencing Conference / Mexican Fencing National Champion

SCHOLARSHIPS AND FELLOWSHIPS -

Landsman Charitable Foundation Endowed Scholarship

February 2016

Awarded to a Brandeis undergraduate student who excels in the sciences and shows great interest in engineering

Materials Research Science & Engineering Centers (MRSEC) Fellowship

May 2016

• To support a project on DNA-induced self-assembly systems, their equilibrium states, and phase transitions

PRESENTATIONS -

"Quantitative Study of Linker-Mediated Binding Between DNA-Coated Colloids," poster presentation, Summer Science Research Program, Brandeis University, Waltham, MA, August 2016

PUBLICATIONS -

"Linker-mediated phase behavior of DNA-coated colloids" arXiv, (2019). Link: https://arxiv.org/abs/1902.08883.

PROJECTS -

My software development projects can be seen at guillonapa.github.io or github.com/guillonapa.