Henrique de Almeida Machado da Silveira

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EXPERIENCE

University of São Paulo, São Carlos-SP, Brazil

August 2017–December 2017

Research Project: "Variations of Deep Learning for Cancer Diagnosis Using Gene Expression Data"

- Conducted research on different Machine Learning techniques, focusing on three Deep Learning architectures used to classify
 public domain gene expression data: Multilayer Perceptrons, Convolutional Neural Networks and Stacked Denoising
 Autoencoders
- Built an automated pipeline in Python (using Keras and Theano) to run multiple Deep Learning experiments consisting of three phases: data balancing, data dimensionality reduction and classification. The pipeline was responsible for running experiments with different configurations, using unique combinations of techniques in each experiment
- Compared and analyzed the results obtained from the experiments after using gene expression data for cancer classification
- Presented the results of the research project to a board of examiners at University of São Paulo, obtaining maximum score

Arquivei, São Carlos-SP, Brazil

March 2017-July 2017

Front-end Development Intern

- Used React, Javascript and Redux to implement various screens from Arquivei's platform and improved the style of different screens using CSS, Bootstrap and HTML
- Studied and investigated React's design principles, component-based architecture and component lifecycle
- Aided the Customer Service team as an apprentice on-call engineer, helping to address client issues related to the platform

Microsoft Corporation, Redmond, WA, USA

January 2017–March 2017

Software Engineering Intern

- Developed and validated an end-to-end global dismiss feature for notifications, aiming to automatically dismiss notifications on an user's device if the same notification had been seen by the user on a different device
- Implemented the feature using C#, understanding the functionality of a large scale distributed system
- Created a test iOS app using Swift to demonstrate and validate the scenarios related to global dismiss, recording a video of the app which demonstrated the feature to than 400 people in a Microsoft employee conference
- Global dismiss adds value to Substrate Notification Service's system, impacting potentially millions of users

Google Inc., Belo Horizonte-MG, Brazil

December 2015-February 2016

Software Engineering Intern

- Implemented a back end system for filtering notifications from mobile systems, developing the filtering logic and defining the data models to support this new feature
- Updated the front end in mobile systems to support the developed notification filtering system, adapting both the UI and the data models in the front end
- Developed a document presenting the objectives of the project and proposing strategies for its implementation
- Worked on miscellaneous bugs involving mobile systems

University of São Paulo, São Carlos-SP, Brazil

February 2015-June 2015

Teaching Assistant, Introduction to Computer Science

- Held weekly sessions with students, highlighting and presenting important topics and addressing questions
- Provided individual assistance with class projects during office hours and graded homework, programming projects and tests
- Created compilations of exercises with solutions emphasising key concepts that lay the foundations of programming skills

WebMD, LLC, New York, NY, USA

June 2014-August 2014

Technology Operations Intern

- Developed nxlog configuration files involving regular expressions to process logs from multiple applications
- Created Chef cookbooks to automate the installation of nxlog in both Red Hat Enterprise Linux and Windows servers
- Investigated compatibility between RHEL and Windows cookbooks, presenting conclusions to the team

EDUCATION

University of São Paulo, São Carlos-SP, Brazil

Bachelor of Science, Computer Engineering, GPA 9.3/10.0

February 2012–December 2017

January 2014-December 2014

Columbia University, New York, NY, USA

Computer Engineering, Non-degree international student, GPA 4.0

Brazil Scientific Mobility Program, fully-funded scholarship recipient by CAPES

RELEVANT COURSEWORK

Operating Systems Algorithms and Data Structures Databases

Advanced Programming Parallel Programming Artificial Intelligence

SKILLS

Programming: C, Python, Java, C#, Swift, Objective-C, C++, Javascript, React **Languages:** Native Portuguese, Advanced English, Conversational Spanish