Latané Bullock

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EDUCATION

RICE UNIVERSITY
B.S. Elec & Computer Eng
B.A. Linguistics
May 2020 | Houston, TX
GPA: 3.87

TEXAS ACADEMY OF MATH & SCIENCE
The University of North Texas
Concentration in Computer & Software Eng
May 2015 | Denton, TX
GPA: 4.0

COURSEWORK

Signals, Systems, and Machine Learning
Digital Logic Design
Functional Programming
Computational & Algorithmic Thinking
Random Signals
Phonetics and Phonology
Analysis of Sounds Systems
Quantum Devices

SKILLS

PROGRAMMING

Proficient:
Python • JavaScript/ES6 • Java • C#
Familiar:
C • Matlab • R
• Verilog • LaTeX

NATURAL LANGUAGES

English - Native
French - Fluent
Spanish - Fluent
Portuguese - Proficient

SOFTWARE

Unity 3D (Game Engine)
MS Visual Studio, IntelliJ
Adobe Illustrator
Canon Photography
MS Office, Excel

LINKS

Personal:// **latanebullock.info**
LinkedIn:// **latanebullock**
Blog:// **latinbrazil.blogs.rice.edu**
Github:// **prlabu**

EXPERIENCE

INFOSYS LTD | Software Engineering Intern
Summer 2018 | Bangalore, India

- Designed performance tests for JavaScript 3D graphics library.
- Developed flexible JS testing framework and repository for future investigations.
- Delivered set of "best practices" for Infosys engineers working with Three.js.

ROCKHEAD STUDIOS | Software Engineering Intern
Summer 2017 | Porto Alegre, Brazil

- Developed 3D A* search algorithm to automatically connect segments of race track in mobile karting game.
- Thoroughly tested mobile archery game and crafted strategic player-experience improvement plan.
- Translated game versions to English and Spanish, advised English wording and syntax, voiced over game characters.
- Facilitated active learning workshops on Engineering Design Process with professors at Pontifícia Universidade Católica (RS).

RESEARCH AND PROJECTS

SYNTHESIZED VOICE AND PHONETIC IMITATION Fall 2018

- Designed and developed (Python) experiment to investigate the effects of synthesized voices in phonetic imitation/convergence.
- Recruited subjects to engage in shadowing a perceived real voice and synthesized voice.
- Analyzed waveforms in PRAAT and R, extracting features such as Voice Onset Time.

LINGUISTIC STYLE IN ENGAGING ARTIFICIAL SYSTEMS Fall 2018

- Designed pilot experiment to characterize differences between speech when engaging a virtual assistant/artificial system versus a human.
- Conducted interviews with parallel questions in the virtual assistant and human phase, analyzed conversations at all linguistic levels.

MOVIE GENRE PREDICTION WITH ML Nov-Dec 2018

- Competed in Kaggle machine learning competition to predict movie genres given metadata and an image of release poster.
- Explored machine learning techniques such as SVMs, NNs, and CNNs with tools like TensorFlow, sklearn, and Google Colab.

AWARDS

Best Oral Presentation
Rice First-Year Writing Seminar | May 2017
Best Undergraduate Presentation
IEEE MetroCon Conference | April 2015
Most Valuable Student Scholarship
Arlington Elks Lodge | May 2015
Best In State Mobile App Concept
Verizon App Challenge | 2015

INTERESTS

Snowboarding • Triathlons • Piano • Backpacking • Ultimate Frisbee