Laurel Goodhart

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Software Engineer & Computational Linguist

Character-driven AI experiences, Natural Language Understanding (NLU), and Natural Language Processing (NLP)

Experience

2021—2023 Principal Computational Linguist, Walt Disney Engineering, remote

(current) D3-O9, interactive droid character aboard the Star Wars Galactic Starcruiser (Walt Disney World)

- Owned Natural Language Understanding (NLU) pipeline
 - Trained, evaluated, and iterated models for conversational agent
 - Identified trends in user testing to better tailor character content
 - Delivered and maintained production-ready NLU systems
- O Worked closely with Conversation Experience Designers to guarantee a "Disney magic" experience
 - Used insight into content-creation process to translate between creative and technical teams
 - Helped design next generation of experience-authoring tools
- O Worked with in-house researchers to define conversational quality metrics
- 2019—2021 **Senior Software Engineer**, Primed Technologies, San Francisco, CA / remote

Long-term companion robot + app-based character for kids

- O Combined innovative robotics and Natural Language Processing (NLP) techniques
 - Led architecture design for state-of-the-art computer conversation at scale
 - Designed and implemented internal webapp for content authoring
- O Created a fantastical digital companion in a sprite-based iOS app
- O Conducted rapid prototyping of 3D mobile games in Unity
- 2018 Natural Language Processing Specialist, Woebot Labs, Inc., San Francisco, CA

Woebot, a mental health chatbot that teaches users Cognitive Behavioral Therapy techniques

- Created a novel application of Natural Language Understanding (NLU) to the rapeutic exercises
 - Trained, evaluated, and deployed language models for activity and mood classification
 - Established a data collection and annotation strategy
- Applied expertise in chatbot conversational design to existing product
 - Identified common pitfalls, suggested solutions, and implemented them
 - Conducted analysis of effects of NLU issues on retention during app onboarding
- O Assisted in design of new chatbot authoring environment for use by non-technical users
- 2015—2017 **Artificial Intelligence Engineer**, PullString, Inc. (formerly ToyTalk, Inc.), San Francisco, CA PullString Author, a software platform for authoring human-fidelity AI conversation; various conversational apps and toys, including Hello Barbie, Doctor Strange, Thomas & Friends Talk to You
 - O Designed, implemented, and improved Natural Language Processing (NLP) features
 - Including negation detection, number conversion, user and author input normalization
 - Established large-scale testing to support data-driven decision-making
 - O Collaborated with technical and non-technical peers on product features
 - Expressive word/pattern matching syntax for use by non-technical users
 - NPL and Machine Learning -based synonym and phrase suggestion

Education

- 2018 Deep Learning Specialization, deeplearning.ai, Coursera
 - 5 courses: Neural Networks and Deep Learning; Improving Deep Neural Networks; Structuring Machine Learning Projects; Convolutional Neural Networks; Sequence Models
- 2013—2014 Professional Master of Science in Computational Linguistics,

University of Washington, Seattle, WA

- O Focused on Natural Language Processing (NLP), Machine Learning (ML), and language modeling
 - Specific topics included Machine Translation, Information Retrieval, and Question Answering
- 2009—2013 Bachelor of Arts in Applied Linguistics, Portland State University, Portland, OR
 - Minor in Computer Science
 - O Honors College, undergraduate thesis: "The Linguistics of Sentiment Analysis"