Nadja Rhodes

Software/ML Engineer

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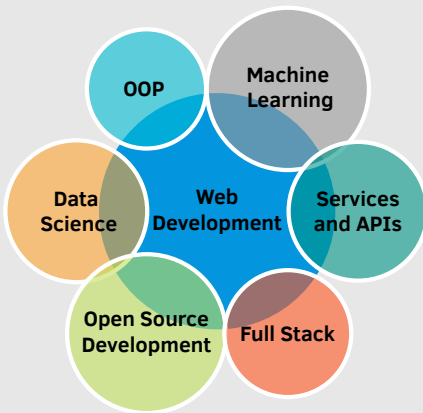- /in/nadjarhodes
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Skills
Overview

Programming

HTML5 • TypeScript • JS

C# • Python • R

Rails • Shell • Java

C • C++ • LaTeX

Projects & Conferences

- [GitHub] @deephypebot: a music commentary generator using deep learning
- [GitHub] OpenAI Scholar work
- [GitHub] fast.ai coursework & notes
- [Blog] An ML model for task extraction
- [Blog] A ported Python analysis of *Love Actually*
- [Blog] A guide to topic models & dimensionality reduction
- *Women in Data Science Conference* - Feb 3, 2017 & Mar 5, 2018 (online)
- *Grace Hopper Celebration of Women in Computing* - Oct 19-21, 2016
- *Y Combinator's Female Founders Conference* - Mar 1, 2014

Education

| 2009 - 2013 | **B.S. Computer Science** | Stanford, CA |
| | Stanford University, School of Engineering | |

Experience

Jun 2018 - Sep 2018 — **Deep Learning Scholar** — OpenAI

- Granted a scholarship to study deep learning full time under mentorship by Natasha Jaques (MIT, DeepMind). Focused on techniques in language modeling and generative text for natural language processing (NLP).
- Developed a deep generative language model trained on past human music writing, compiled from the web and conditioned on attributes of the referenced music. Model outputs are deployed live via @deephypebot, a Twitter bot that automatically finds ongoing discussions about music and generates new music commentary.

Sep 2013 - Sep 2018 — **Software Engineer 2** — Microsoft, OneNote Services

- Started a machine learning and NLP incubation effort with three other engineers. Delivered practical prototypes for the note-taking domain.
- Rebuilt and open-sourced the OneNote Web Clipper (a multi-browser extension for extracting web content into OneNote) on a modern, React-like library. Primary architect of V1 data collection infrastructure, enabling real-time health monitoring and data-driven decision making about where to invest next in the product.
- Primary developer for V1 of onenote.com/notebooks, the main entry point for 4M monthly active users to find and access their OneNote content online.

Self-Study

- Practical Deep Learning for Coders by Jeremy Howard (fast.ai) - Completed 2018
- Machine Learning by Stanford University/Andrew Ng (Coursera) - Completed 2014
- R Programming by Johns Hopkins University (Coursera) - Completed 2016
- The Data Scientist's Toolbox by Johns Hopkins University (Coursera) - Completed 2016

Internships

Summer 2012 — **Trainee** — NTT Communication Science Laboratories, Japan

- Linguistic Intelligence Research Group
- Implemented additional features to standard sequential pattern mining algorithm (PrefixSpan), introduced to distributed computing via Hadoop.

Summer 2011 — **Intern (BOLD Engineering Practicum)** — Google, Inc.

- Google AdWords Display Network
- Developed and released client-motivated UI feature for Contextual Targeting Tool, used to build advertising campaigns.

Summer 2010 — **Research Assistant, Sociology Department** — Stanford University

- Supervised by Dr. Amanda J. Sharkey
- Optimized manual data mining project by developing Python code to automate LexisNexis Academic news database searches.