

# Nadja Rhodes

Software/ML Engineer



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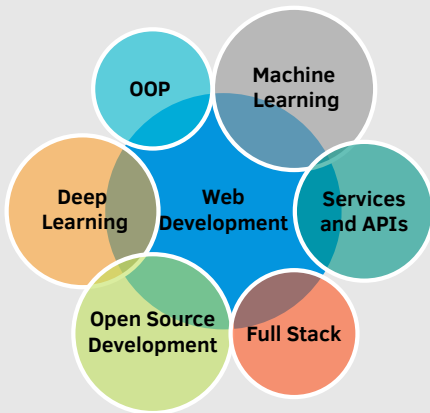


/in/nadjarhodes



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## Skills Overview



## Programming

HTML5 • TypeScript • JS

C# • Python • PyTorch

R • Rails • Shell • Java

C • C++ •  $\text{\LaTeX}$

## Projects & Conferences

- [YouTube] [@deephypebot final project presentation at OpenAI](#)
- [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 University, School of Engineering

Stanford, CA

## 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 and [open-sourced](#) 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 prototypes in 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.