

# Viraj Sinha

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## EXPERIENCE

*Software Engineer (part-time)* January 2018 - Present  
Neurolex Diagnostics, Inc

- Machine learning using voice analysis to **help diagnose mental health disorders**
- Building a pipeline for **handling and processing audio files**

*Software Engineer* January 2016 - Present  
Microsoft, Bellevue, WA

- Building a pipeline for **realtime video processing**, lets you chain together arbitrary machine learning models and techniques for a wide range of scenarios, including traffic analysis. Buzzwords: AI, realtime computer vision, smart(er) cities
- **Bing Ads** experimentation
- Built several **VR concept projects** in a 3 month experimentation sprint
- (formerly) Building a service for adding **location awareness to mobile apps** (www.loop.ms)
- (formerly) Built a **location aware athletics iOS app** to track runs and bike rides
- DevOps and tooling for our containerized server infrastructure (**Docker/Kubernetes**)
- Experimenting w/ team culture in a **healthy and cooperative work environment**

*Program Manager* September - December 2015  
Microsoft, Bellevue, WA

- Learned a **lot** about Microsoft. Worked on office.com team.

*Software Engineer, Contractor* April - May 2015  
OpenTrons, Inc., Brooklyn, NY

- Worked on a 3D printer-esque robot to **automate biology experiments**
- Developed control and connectivity systems as the 'brain' of the OT.one robot

*Engineering Intern* Summer 2014  
Numenta, Inc., Redwood City, CA

- Built a stock market anomaly detection tool using Numenta's open source software
- Investigated and worked to optimize ML model serialization & swapping performance

*Undergraduate Researcher* Summer 2012  
Neuroprosthesis Research Lab, Purdue University

- Developed software reading from electrodes implanted in rat brains

## EDUCATION (formal)

*Recurse Center (formerly Hacker School)* (SP1'15) February 2015 - May 2015  
Manhattan, NY

*Bachelor of Science Computer Science* December 2014  
Purdue University, West Lafayette, IN  
Minors: Biology, Philosophy, Psychology

## SOME SKILLS

**Favorite languages:** Typescript, JavaScript (node.js), Swift (iOS)  
**Experience with:** C#, Python, Java, Embedded C with the Arduino platform  
**Tools:** UNIX, DC/OS, Docker, Unity, Blender

## TRIVIA

FIRST Robotics Competition Mentor (team 1646) and Team Captain (team 2367)  
Airplane Pilot (Cessna 172)  
Beekeeper