

Viraj Sinha

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EXPERIENCE

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.
- **Bing Ads** experimentation
- Built several **VR concept projects** in a 3 month experimentation sprint
- Built a service for adding **location awareness to mobile apps** (www.loop.ms)
- 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**

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, 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

Software Development Intern Summer 2011
Intrepid Technology, Inc., Palo Alto, CA

- Contributed Unified Parallel C (UPC) support to GNU Indent
- Wrote a multithreaded A/B search-based "AI" Mancala player in C/UPC

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)
Experienced with: C#, Python, Java, Embedded C/C++ with the Arduino platform
Tools: UNIX, Kubernetes, Mesos / DC/OS, Docker, Unity, Blender

TRIVIA

Won "Most Viable Startup" and "Most Technically Impressive" awards at MHacks III
FIRST Robotics Competition Mentor (team 1646) and Team Captain (team 2367)
Airplane Pilot (Cessna 172)
Beekeeper