Rohith Nadimpally

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Education

➢ **Purdue University**   West Lafayette, IN
BS in Computer Science with Honors and Dean's List Recognition   *Expected: Dec 2023*

➢ **Relevant Coursework:**
Programming in Java (CS 180), Discrete Math (CS 182), Programming in C (CS 240), Competitive Programming 1 (CS 290), Linear Algebra (MA 265)

Experience

➢ **Beck's Hybrids**   West Lafayette, IN
Data Science Researcher   *January 2021 ~ May 2021*
  ➢ Working with research division to develop Plot Loss tool that can calculate risk/identify the best locations in a field, given the land characteristics, to plant research plots.
  ➢ **Leveraging various data streams (Beck's historical aggregations, IoT devices and public/private repositories) to assemble, analyze, train models that will assist in good plot placement choices.**

➢ **EpiData IoT Data Science**   San Francisco, CA
Big Data Engineering Intern   *Summer May 2020 ~ August 2020 / Winter December 2020 ~ January 2021*
  ➢ San Francisco based startup that provides a platform for data analytics/machine learning solutions in the automotive, energy, manufacturing, and IoT (internet of things) industries.
  ➢ **Enhanced Epidata Platform to support ZeroMQ data pipeline and managed preexisting Kafka pipeline.**
  ➢ **Worked with Scala, Python languages, and ZMQ, Kafka, Apache Spark frameworks.**

➢ **MIT's Humanistic Co-Design Initiative**   Cambridge, MA
Researcher/Software Developer   *March 2019 ~ September 2020*
  ➢ **Worked with Dr. Kyle Keane (MIT Department of Electrical Engineering and Computer Science) to develop a programming language for the visually/physically disabled.** Converted natural speech inputs (as opposed to keyboard inputs) into structured code through the use of NLP and text analysis.
  ➢ More info under "Projects"

Projects

➢ **Verbal Coding**
  ➢ Winner of HackNYU: Google Sponsor Prize and Education Track.
  ➢ **Handled development of semi-structured, verbal programming language (VPL), which takes inspiration from the syntactical lenience of Python but puts more emphasis on grammatically sound speech.**
    ○ See Project @ verbalcoding.ml

➢ **Compressr**
  ➢ A React and Node application that outlines and suggests ways to compress imputed text.
  ➢ Developed standalone Node API that GETs data from Google's NLP Cloud Service and inputs retrieved metadata into proprietary algorithm which outputs a rank for each sentence determining its importance to the passage as a whole. Also developed React app that consumes and outputs data in a user-friendly UI.

Campus Involvement

➢ **Purdue Autonomous Motorsport**   West Lafayette, IN
Software Team   *Since August 2019*
  ➢ **Working with a team composed of undergraduates and graduate students to build and race an autonomous go kart.**
  ➢ **Working in conjunction for the IAC sub-team as a data collection engineer to autotomize a formula-one race car for the Indiana Autonomous Challenge to be held in October 2021.**

Technical Skills

➢ **Languages/Tools**: *Java, Python, Scala, C, C++, WebDev (HTML, CSS, Javascript, JQuery), LaTeX*
➢ **Technologies**: *OAuth2, AWS, Natural Language Processing, MongoDB, ZeroMQ, Apache Kafka, Apache Spark*