

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)
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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"
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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
 - **Compressor**
 - 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.
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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.
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Technical Skills

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