

# Noah Huber-Feely

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## Education

- Expected 2021 **BS in Computer Science**, *Columbia University*, New York, NY.
- Campus Involvement: Columbia Space Initiative (CubeSat team), Robotics Club, Science Fiction Society
  - Cumulative GPA: 4.0

## Experience

- Jun 2019 – **Software Engineering Intern**, *Bear Flag Robotics*, Sunnyvale, CA.
- Aug 2019
- Architected and developed from the ground up their autonomous tractor path generation utility, enabling them to perform their first full farm operation. Managed the paths for the 6 field operations that summer.
  - Developed an efficient path parametrization and designed fitting algorithms for heuristically optimal coverage and implement performance in any farm field, enabling them to complete the next year of their milestone plan. The tool generates paths 13x faster than their previous utility even while handling arbitrary polygons.
  - Collaborated on ROS stack with team of 7 engineers. Concurrently participated in the TEC Fellowship.
- May 2018 – **Software Engineering Intern**, *Chartbeat*, New York, NY.
- Aug 2018
- Worked on every component of the stack (from React to their Python and Redshift back-end). Primarily focused on the back-end and connection to idiomatic React and Angular components.
  - Enhanced query speeds by up to 80% through heuristic computation.
  - Launched their historical analytics product out of beta. Developed majority of new product features and performance improvements. Resulted in all-time highest customer use (210% higher) of historical analytics.
  - Advised product vision and built most projects from the front-end design stage to the back-end changes.
  - Concurrently participated in the HackNY Fellowship, gaining a foundation in the startup world.
- Oct 2016 – **CTO**, *LifeTriage*, Huntsville, AL.
- Present
- Lead all current development and independently constructed & deployed mobile apps for iOS and Android along with a robust web app using React Native, node.js and a MongoDB back-end. ([ctips.lifetriage.com](http://ctips.lifetriage.com))
  - Improved loading time by over 120% with WebSockets and developed algorithms for recommendations based on collected user data. Pioneered TensorFlow based career recommendation system
  - Directed user testing and analytics, including A/B testing, increasing user engagement 300%.
- Mar 2016 – **Business Owner**, *Noah's Arc Development*, Winchester, TN.
- Jul 2017
- Built back-end APIs, mobile apps and websites for 7 clients from small businesses to medium corporations.
  - Delegated project tasks and handled small team management. ([noahcodes.com](http://noahcodes.com))

## Leadership & Projects

- Jan 2018 – **Clara Conversational Agent System - Personal**, *NLP, Weak AI*, New York, NY.
- Present
- Engineered a Python PIP package that uses natural language processing techniques to handle small talk queries to chat bot based systems on top of existing frameworks. ([github.com/huberf/clara-pip](https://github.com/huberf/clara-pip))
- Sep 2016 – **Quantified Self - Personal**, *Data Collection, Prediction and Inference*, New York, NY.
- Present
- Collect millions of data points (e.g. heart rate variability, coffee intake, task completion rate) and write systems to analyze and offer suggestions to improve myself. Employed TensorFlow models to derive correlations.

## Skills

- Languages JavaScript, Python, R, Java, C++, Clojure (intermediate), HTML, LaTeX, SQL, CSS
- Frameworks React Native, Node.js, Express.js, Socket.io, ROS, React, Angular, TensorFlow (intermediate)
- Utilities Git, Vim, Bash, MongoDB, Redis, PostgreSQL, AWS S3, Xcode, Android Studio, Docker