

# Shatayu Kulkarni

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## EDUCATION

### PURDUE UNIVERSITY (Aug. 2018 - proj. May 2022)

Major: Computer Science (Honors)

GPA: 4.00 | Major GPA: 4.00

MA 27101 Honors Multivariable Calculus

MA 35100 Elementary Linear Algebra

CS 39000 Competitive Programming

### HARVARD UNIVERSITY (Jan. 2017 - Dec. 2017)

CSCI E-20 Discrete Mathematics

CSCI E-22 Data Structures

## SKILLS

Python (BeautifulSoup, scikit-learn, numpy), MATLAB, C, C++, Java,  
JavaScript (Node.js, React), HTML, CSS, PostgreSQL, Firebase, Photoshop

## EXPERIENCE

### **Research Assistant, RCODI Lab at Purdue University (Jan. 2019 - present)**

- Under Dr. Sabine Brunswicker
- Using Python to create simulated environments for computational sociology experiments
- Developing reinforcement learning-based program to study optimal behavior in various simulated environments

### **Developer, Fireflies.ai (Feb. 2018 - present)**

- Develop Chrome extensions in JavaScript using natural language processing (with machine learning) to provide useful services
- See TalkCRM for an example of work done under Fireflies.ai

### **CTO, Fluma Co. (2016-2018)**

- Did Android, system-level development for startup I founded
- Exhibited at Maker Faire, an annual tech festival

### **Team Captain, DVHS Robotics 5776A (2017-2018)**

- Captained, built, and programmed (using sensors, control theory, and RobotC) for a VEX Robotics Competition team
- Top performer at various regional events, finalist at State Championship, World Championship qualifier

### **Developer, Impeccable Softwares (Jul. 2016 - Aug. 2016)**

- Used HTML and CSS to design websites according to clients' needs
- Used the Facebook Graph API to analyze client feedback

## AWARDS

- Best Designed Product, HarkerHacks 2018
- USA Computing Olympiad Silver Division, 2017
- Champion, Vanden Robotics Tournament 2017
- Finalist, Dougherty Valley Robotics Tournament 2017
- Top 8, VRC California State Championship 2017  
Qualified for VEX World Championship
- Finalist, Tracy Triangle VEX Robotics Tournament 2017
- Finalist, Google VEX Tournament 2017
- Semifinalist, Vanden Robotics Tournament 2016

## PROJECTS

### **TalkCRM (JavaScript, HTML, CSS)**

- Chrome extension that enables users to use natural language to fill in a CRM
- Up to 3 times faster than using regular CRM interface
- Available for download on Chrome Web Store

### **VEX Robotics Spacing Calculator (JavaScript)**

- Uses dynamic programming to calculate the best VEX Robotics spacers to use to fill in a gap of arbitrary distance

### **PokéPredict (Python, PostgreSQL)**

- Uses k-means clustering and an SVM to predict the winner of a Pokémon battle

### **Atium (Node.js)**

- Research-assisting Chrome extension that automatically scans the webpage the user is on for topics, serves them links related to their topic
- Compiles summaries and citations of sites visited during the research session

### **FoodByte (React)**

- Generates recipes
- Recipes satisfy a wide variety of conditions (limited ingredients, calories, dietary restrictions, etc.)
- Accepts natural language input