Shatayu Kulkarni

shatayu@purdue.edu | (425) 777-0825
github.com/shatayu
https://www.linkedin.com/in/shatayukulkarni/
shatayu.co

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 deveopment 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