

Roger Wang

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Education

Boston College	Graduated May 2021
B.S. Computer Science	GPA: 3.78/4

Experience

Warner Bros. Discovery	July 2022 -- Present
<i>Software Engineer</i>	<i>New York, NY</i>

- Proposed and developed a headless automated testing framework for the Roku platform, decreasing build testing time and reduced crash regression bugs by 20%
- Delivered Roku UI features and critical bug fixes for Discovery+ global launch and Beijing 2022 Olympics launch
- Created Roku app login CLI tool to speed up development by freeing up 36 developer hours per sprint

NASA Jet Propulsion Laboratory	June 2020 -- Aug 2020
<i>Software Engineering Intern</i>	<i>Pasadena, CA</i>

- Built an interactive visualization tool with React and Python for the MAIA imaging instrument enabling operators to monitor and detect errors and anomalies in captured telemetry
- Implemented anomaly report generation, satisfying the mission's data loss accountability requirements

Boston College GET Delivery	Aug 2018 -- May 2019
<i>Fullstack Software Engineer</i>	<i>Chestnut Hill, MA</i>

- Built deliverer profile page using React to pull individual stats and achievements, serving over 50 student deliverers
- Developed in-app SMS messaging functionality, protecting the personal information of customers

Projects & Publications

LiteDoc – A distributed collaborative editing tool	Jan 2020 -- May 2020
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- Created a collaborative text editor client and a distributed system of proxy and leader-election servers in Golang which implements the SWMR atomic register concurrency approach outlined in the LiteDoc research paper
- Presented a demo of LiteDoc at the Percom2020 distributed computing conference in March 2020

Exploring Unsupervised Decoding Models to Predict Brain Response	Oct 2019 -- May 2020
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- Built automated deep learning pipeline with data extraction, feature autoencoding, and model fitting in PyTorch
- Used convolutional neural networks to predict and compare brain signal response in several brain areas

Live Subtitles	Mar 2019
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- Developed a real-time AR speech bubble subtitles app to help individuals with impaired hearing using face-api and Google's speech-to-text API in Hack Dartmouth V

Activities

Boston College CS Society – Event Coordinator & Tech Lead	Aug 2018 -- May 2021
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- Lead team of 6 students to launch the latest organization's website and its 2019 and 2020 hackathon websites
- Organized and led Git, Web development, React, and Machine Learning workshops

Computer Science Teaching Assistant	Jan 2020 -- Dec 2020
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- Held weekly office hours and graded homework for the following courses: Data Science, Machine Learning

Skills

- Programming Languages: Python, JavaScript, BrightScript, C, SQL, Java, HTML/CSS
- Software Stack: React, Node, MongoDB, MySQL, pandas, matplotlib, PyTorch
- Tools: Git, Unix, AWS (S3, SNS, SES, EC2)