

# Roger Wang

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## Education

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

## Experience

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**Warner Bros. Discovery** July 2022 – Present  
*Software Engineer – Roku Client* Hopkinton, MA

- Proposed and developed a headless automated testing framework for the Roku platform, decreasing build testing time by 60% and reduced regression bugs by 20%
- Delivered 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  
*Software Engineering Intern* Pasadena, CA

- 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  
*Fullstack Software Engineer* Chestnut Hill, MA

- 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 & Research

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**LiteDoc – A distributed collaborative editing tool** Jan 2020 – May 2020

- 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

- 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

- 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

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**Computer Science Teaching Assistant** Jan 2020 - Present

- Held weekly office hours and graded homework for the following courses: Data Science, Machine Learning

**Boston College CS Society – Event Coordinator & Tech Lead** Aug 2018 – Present

- 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

## Skills

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