

# Snigdha Banda

Software Engineer | San Francisco, CA | 408-780-5360 | banda.snigdha@gmail.com | [github](#) | [linkedin](#) | [website](#)

## Skills

Ruby, Ruby on Rails, Python, JavaScript, React, Redux, HTML, CSS, Mongoose, MongoDB, Node.js, Express.js, SQL, SQLite3, PostgreSQL, Webpack, jQuery, Git, Heroku, Websockets, AWS

## Projects

**Hack** (Ruby on Rails, React, Redux, Javascript, PostgreSQL, HTML, SCSS, Webpack, Heroku, Websockets) [github](#) | [live](#)

*A full-stack single-page app: the social workspace analog of Slack that connects users to their favorite celebrities and social icons*

- Leveraged Rails' Action Cable and Redis to manage web-socket connections for live-chat
- Designed a search feature using debounce to efficiently query the database
- Built a secure user authentication system, utilizing Bcrypt to hash and salt passwords, strengthening protection of user data

**Around the Block** (MongoDB, Express, React, JavaScript, Node, HTML5) [github](#) | [live](#)

*A MERN stack app for the elderly that allows users to host events, friend others, and sign in via speech-to-text*

- Implemented Web Speech API to allow users with visual impairments to sign up via voice recognition
- Employed GitHub's version control system to effectively collaborate with 3 other team members
- Utilized the Validator.js library to validate user credentials in the controller before saving records into MongoDB

**Speedy** (JavaScript, HTML5, CSS3, Webpack) [github](#) | [live](#)

*A twist on the classic Snake game, built using vanilla Javascript*

- Implemented HTML Canvas to dynamically render 2D shapes and bitmap images to create visually compelling background and game characters
- Created interactive gameplay via collision detection and setInterval() clock functionality

## Experience

**Chief of Staff, ChipBrain**

Jun - Sep 2021

*Remote, Part-time*

- A conversational AI startup: Pitched to investors, built out a recruiting pipeline for technical hires, streamlined internal documentation, and onboarded new hires

**Clinical Study Researcher**

Nov 2020 - Jul 2021

*University of California, San Francisco*

- Spearheaded 3 end-to-end research studies of 200+ patients using research database software (RedCap) and mixed methods data analysis to evaluate geriatric mental health outcomes during COVID-19
- Co-authored manuscript: [Pre-estimating subsets: A new approach for unavailable predictors in prognostic modeling. Journal of the American Geriatrics Society.](#)

**Research Associate, Computational Sensory Processing Lab**

*Baylor College of Medicine*

Dec 2017 - Jan 2019

- Designed, tested, and analyzed 2 psychophysical paradigms via MATLAB through 50+ human subjects
- Shared findings at 3 national conferences; awarded "Best Poster" out of 50 presenters

**Policy Fellow, USAID**

May - Jul 2019

*USAID Bureau of Global Health*

- Performed qualitative research on beneficiary outcomes for \$12mil project to accelerate HPV screening in Malawi
- Authored briefs & media articles; created social media content for FB/Insta/Twitter

## Education

**Software Engineering - App Academy**

2021

Full-stack software development course; entailed 1000+ hours of coding

**BA, Neuroscience - Rice University**

2016 - 2020

Attended on a full-tuition 2-year scholarship and with acceptance to the Baylor College of Medicine as a Rice/Baylor Medical Scholar