

# VIVEK BHOOKYA

[github.com/mrvivacious](https://github.com/mrvivacious) | [mrvivacio.us](https://mrvivacio.us) | [vbhook2@illinois.edu](mailto:vbhook2@illinois.edu) | 309-660-2340

## Education and skills

**Bachelor's of Science in Computer Science and Astronomy | University of Illinois at Urbana-Champaign | May 2020**

### Programming

Proficient: TypeScript • JavaScript/HTML/CSS • Python • Java • Unix • Bash

Familiar: React • Dart/Flutter • Node.js • C/C++ • C#

### Technologies

AWS/GCloud • Serverless computing • Mockito/JUnit • Jest • Infrastructure-as-code • REST • VCS • Hadoop • VUI

## Experiences

### Amazon | Software Development Engineer | Aug 2020 – Present

- The Amazon Scout delivery robot is an autonomous solution to Amazon's Last Mile problems and a step towards reducing Amazon's carbon footprint via a more electric delivery fleet
- (Team) Implemented ELMO, a decision-tree system that commands the Scouts based on user / mission events (ex: delivery is rescheduled) in Java
- Built notification listeners + associated infrastructure (AWS CDK) to connect ELMO with other team services
- Ported route planning tool from JSX to TSX with JEST tests

### Moodsic at PYGHACK 3 Hackathon | Lodgic sponsor prize winner | September 2019

- PYGHACK 3's theme explored "House" + "Home", ie. "How does a physical entity become a personal space?"
- Moodsic plays music in response to a person's emotion, via Microsoft emotion API, to either enhance or set the mood

### Samsung | Bixby (AI assistant) Developer Partner | February 2019 - May 2020

- Invited to work with Samsung to produce multi-modal AI applications for their Bixby AI service
- Built a positive message generator and an app to display astronomy pictures via the NASA APOD API

### PorNo! URL-based porn-detection algorithm | Author | March 2018 – Present

- Wrote the world's first open-source URL-based porn-detection algorithm
- PorNo! addresses porn addiction by redirecting users from porn sites to meaningful and inspirational user-submitted links, currently available as a Chrome extension and Android app

### CodeQuest | Course developer, instructor | July 2018 - August 2018

- CodeQuest is a 20-hour course about algorithms, web development, Chrome extensions, Alexa skills, and databases
- The course site was built with HTML/CSS/JS, Firestore DB, and AWS Lambda/SNS for a makeshift email-system

## Projects

### Protest Pal mobile app | Summer 2020 | Dart/Flutter

- Protest Pal is a cross-platform, offline-first guide to more informed protesting, with tips on protesting during COVID-19, resources for bail in the Chicago area, handling arrest, and more
- Black Lives Matter. This app was built in response to reports of blocked cell-service at protests

### // Dev Logs podcast | Spring 2020

- // Dev Logs, a YouTube series, aims to highlight uncommon paths students took while growing as software developers and discuss any gender discrimination experienced during their times in school or the industry

### Bhagavad Gita Alexa skill | Spring 2020 | Alexa Voice Service • Node.js • AWS Lambda/DynamoDB

- Listen to, query, and search-by-topic verses and English translations from the Bhagavad Gita, a Hindu scripture, through voice commands

### PorNo! Android app | Winter 2018 | Java • XML • Accessibility API • Firestore DB

- The Android port of the PorNo! algorithm, using Accessibility APIs to query URLs
- Optimized URL queries to 8x faster, reduced memory usage by 5x (700 to 140 MB), 300K installs Jan '19 - Dec '20

### LikeFree Chrome extension | Fall 2017 | JS/HTML/CSS

- Hides likes and notifications on Facebook and Instagram in an attempt to help users disassociate the value of content with "likes" received and possibly ease out of "posting for likes" and social media