VIVEK BHOOKYA

github.com/mrvivacious | mrvivacio.us | v.bhookya98@gmail.com | 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# • Swift

Technologies
AWS/GCloud • Serverless computing • Infrastructure-as-code • REST • VCS • Hadoop • VUI

Experiences

State Farm | Software Engineer 2 | Sept 2021 - Present
• Working on Knowledge Management, a search tool for customers and internals for anything about State Farm
• Improved mobile-friendliness of our tool's website with Oracle JET
• Rebuilding our infrastructure in AWS with Terraform
• Helped set up GitLab version control for the dev team, onboarded and mentored new hire

Karma Trade Swap Shop | Volunteer Frontend Developer | Apr 2021 - June 2021
• Karma Trade fights fast fashion and landfills by offering a community closet where customers can swap in clothes for in-store currency to purchase new clothes
• Built the Catalog page for users to browse and filter inventory
• Built a component to view swap/purchase trends on the account page with React, TypeScript, and MongoDB Atlas

Amazon | Software Development Engineer | Aug 2020 – Mar 2021
• 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 Voice Assistant
• 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

Projects

Drink Counter for the Apple Watch | Winter 2021 | Swift
• Count your drinks at dinners, parties, and events to help maintain healthy drinking habits and your composure
• Reactive UI – the background goes from green to red as the user approaches their limit

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

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