

VIVEK BHOOKYA

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Education

BS in computer science and astronomy | University of Illinois, Urbana-Champaign | May 2020

Coursework

Data structures • Computer architecture • Discrete structures • Applied cloud computing • Computing in astronomy
Tools and techniques for speech and language processing • Statistical analysis • Extraterrestrial life
The big bang, black holes, and the end of the universe

Programming

JavaScript • HTML/CSS • jQuery • Python • C++/C# • Java • Node.js

Technologies

Alexa Voice Service • AWS • Firestore/DynamoDB • Android Studio • Hadoop • SVN/Git • Chrome API • iMovie

Experiences

CodeQuest | Course developer, instructor | Summer 2018 | Bloomington, IL

- 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

State Farm | Systems/IT Intern | Jan 2018 – May 2018 | Urbana, IL

- C# was used to create and implement a secure input handler for a State Farm application that allowed information lookup for the IDs inputted and Checkmarx was used to ensure the security of the code written

ATLAS | Mobile Intern | Sept 2017 – Dec 2017 | Urbana, IL

- Worked in a team to resolve issues of and add improvements to the UIUC's primary academic app with JS
- Contributed directly to the Moodle codebase and communicated with the authors of Moodle

Cloudquest Technologies, LLC | Freelance developer | May 2017 - Aug 2017 | Bloomington, IL

- Designed an Android app to facilitate the forming of study groups at large universities and built a "storybook" website for a couple's relationship journey with HTML/CSS

Projects

Amazon Alexa

Duel Assistant | Summer 2018 (in progress) | Alexa Voice Service • Node.js • AWS Lambda/DynamoDB

- Add, subtract, and view lifepoints during two-player YuGiOh duels, conveniently through voice

Share Love, Github tutorial | Spring 2018 | Alexa Voice Service • Node.js • AWS Lambda/SNS

- Skill that makes it easy and fast to text loved ones a positive message, all with one sentence (a faster implementation of the Magical Messages Android app)

Baby Words | Winter 2018 | Alexa Voice Service • Node.js • AWS Lambda

- Teaches users vocabulary words through quizzes, acting as an "in-house tutor"
- Stochastic AI provides responses beyond "Correct/Incorrect" for UX enrichment

Chrome extensions

SpeedDial | Summer 2018 | JS/HTML/CSS • jQuery • Chrome API

- Users may view and dial national and local support hotlines from Chrome, free with Google Hangouts

PorNo! (open-sourc) | Spring 2018 | JS/HTML/CSS • jQuery • Firestore DB • Chrome API • IBM X-Force API

- Counters porn addiction by redirecting users from porn sites to meaningful and inspirational user-submitted links
- Includes real-time updates to the detection algorithm, cloud support for users' links, URL capturing system, and more

LikeFree | Fall 2017 | JS/HTML/CSS • jQuery

- Hides likes and notifications on the web versions of 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

Leadership

CS196 Honors introduction to computer science | Head of Office Hours | Fall 2018+

- Organize OH philosophy, lead OH, monitor staff assignments, and work with the staff to improve the CS196 course

Hindu YUVA (Youth involved in Unity, Virtue, and Action) | President | Fall 2018+

- Responsibilities include organizing MyGanesha, an annual devotion to the Ganesh deity, inviting speakers to campus for presentations and discussions, and raising funds through students and local communities' sponsorships