Abhi Velaga

abhi.work/software   github.com/avelaga   linkedin.com/in/abhivelaga

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EDUCATION

B.S in Computer Science, *University of Texas at Austin* (Expected Graduation – May 2021) 3.18 GPA
Additional concentration of study in Studio Art
Relevant Coursework: Software Engineering, iOS Development, Modern Web Apps, Data Structures, Operating Systems, Computer Architecture, Symbolic Programming, Algorithms and Complexity

TECHNICAL SKILLS

Languages: Swift, Java, Python, JavaScript, SwiftUI, C, C++, SQL, TypeScript, HTML, CSS, SCSS, Clojure
Tools: React, Angular, Django, Flask, Git, MySQL, AWS, Apache, Firebase, Mocha, Docker, Linux, Figma, Selenium
Practices: Agile Methodologies, CI/CD, UI/UX Design

EMPLOYMENT EXPERIENCE

Software Engineer Intern, *Visa, Austin, TX* (Summer 2020)

- Led a global team of interns with Agile workflows in developing an E-commerce POC that provides a universal curbside system for small businesses to operate with and better connect to customers.
- Designed the UI, developed a React app to dynamically load data from a Django Rest API across 25 endpoints, and embedded Visa's payment system.
- Created a CI/CD pipeline to automate the build and deploy process of the application to AWS.

Software Engineer Intern, *Schlumberger, Houston, TX* (Summer 2019)

- Researched and implemented a working solution in Angular for building applications into packages and dynamically embedding into a single platform, saving internal teams months of overhead associated with launching new products.
- Created build/release pipeline for deploying packages to private registry on Azure DevOps.
- Utilized the Dragula library to develop a UI to allow users to configure their UI in real-time.
- Participated in Agile management workflows such as sprint planning/review and team stand-ups.

Creative Coder, Austin, TX (2019) - Designed, built, and programmed commissioned Arduino based art installations.

PROJECTS

- abhi.work – Designed and developed a creative and responsive portfolio site to showcase my achievements and projects. Tech used: React, Flask, AWS, Git, CI/CD, SSL, Webpack, Babel, Apache, InVision, Raspberry Pi, Arduino. github.com/avelaga/portfolio
- bandtogether.events – Built a responsive web app that scrapes public data to build an information portal using modern SWE practices as part of a team. Tech used: React, Django, PostgreSQL, AWS, Git, Docker, CI/CD, SSL, Selenium, Mocha, and Postman. github.com/avelaga/band-together
- *Inside Skoop* – Designing and developing an app that helps students find classes that fit their criteria for both the web and iOS devices. Technologies used: React, Swift, Django, Git, AWS, PostgreSQL, Firebase, InVision, SSL, and Apache. github.com/avelaga/inside-skoop-ios
- Built a network of Raspberry Pis and Arduinos in my room that control LED strip animations from a web app. Tech used: React, Flask, C++, Git, and Apache. github.com/avelaga/room-led-api
- subhanjali.com – Designed and developed a commissioned responsive portfolio site. React, AWS, Git, CI/CD, SSL, Webpack, Babel. github.com/avelaga/subhanjali
- Programmed a graphical evolution simulation, terrain generation, games, and generative art algorithms using Processing.
- Developed and showcased an LED installation with C++ and Arduino that mimics animal behaviors and sensory response.
- Designed, built, and programmed interactive LED installations for Fortress Fest in Ft. Worth and *Acid Test* in Austin.
- Developed and showcased an interactive game with Arduino, motors, and LEDs at Maker Faire, Austin, TX.

LEADERSHIP AND VOLUNTEER ACTIVITIES

Advisor, Allen ISD Career and Technical Education Advisory Board (2020 – Present)

President, Texas Photo Society, University of Texas at Austin (2018 – 2020) **–** Founded a student organization (~200 members and growing). Responsible for planning and managing events, running meetings, and making executive decisions.

Business - Set up and ran four small businesses (freelance developer, music sales, guitar lessons, and freelance photographer).

INTERESTS

Music - Electric Guitar, Drums, Electric Bass, Vocals, Composition, Recording, and Production. Released three full length recordings and also performed in an official SXSW Showcase and several cultural conventions with international audiences.
Film Photography - Conceptualized, shot, and published two complete photo series. Featured on the cover of *Spark Magazine*.
Design - Designed interfaces and UX for multiple web and iOS applications.
Electronics – Designed, soldered, and built multiple interactive installations with Arduino and ESP development boards.