

Abhi Velaga

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EDUCATION

B.S in Computer Science, University of Texas at Austin (Expected Graduation – May 2021) 3.11 GPA

Additional concentration of study in Fine Arts

Coursework: Software Engineering, iOS Development, Network Security and Privacy, Operating Systems, Data Structures, Computer Architecture, Symbolic Programming, Computer Networks, Discrete Math, Elements of Physical Computing, Creative Coding, Creative Problem Solving

TECHNICAL KILLS

Languages: Swift, Java, JavaScript, Python, HTML, CSS, SASS, SwiftUI, C, C++, SQL, TypeScript

Tools: React, Angular, Django, Flask, Git, AWS, Apache, Firebase, Mocha, Selenium, Docker, SSL, Linux, InVision

Practices: Agile Methodologies, CI/CD, UI/UX Design, Azure DevOps

EMPLOYMENT EXPERIENCE

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

- Led a remote global team of interns in developing new e-commerce technology using modern software practices.
- Tech used: React, Django, AWS, Git, CI/CD, FastAPI, Agile Methodologies, Jira

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

- Researched and implemented a solution for building apps into packages, deploying with a build/release pipeline, and dynamically embedding into a single platform.
- Designed and developed UIs to allow users to configure their UI in real-time.
- Tech used: Angular, Git, UX/UI, Node.js, Azure DevOps, GCP, TypeScript, Docker, Agile Methodologies, Postman

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, 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 software engineering practices as part of a team. Technologies used: React, Django, Python, PostgreSQL, AWS, Git, Docker, CI/CD, JavaScript, SSL, Bootstrap, 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 basic Operating System Kernel for a UNIX-like operating system.
- 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, Apache, Raspberry Pi, and Arduino. [github.com/avelaga/room-led-api](#)
- Programmed a graphical evolution simulation, terrain generation, games, and generative art algorithms using Processing.
- Developed and showcased an art installation involving object-oriented programming, Arduino, and LED strips to mimic natural 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 (music sales, guitar lessons, creative coder, 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, printed, and published two complete photo series. Featured on the cover of *Spark Magazine*.

Design – Designed interfaces and UX for multiple web and iOS applications.