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) 3.07 GPA
Additional concentration of study in Fine Arts
Coursework: Software Engineering, iOS Development, Network Security and Privacy, Operating Systems, Data Structures, Object Oriented Programming (Java), Computer Architecture, Discrete Math, Elements of Physical Computing, Creative Coding, Creative Problem Solving

TECHNICAL KILLS

React, Angular, Git, Django, SQL, AWS, Python, Java, Swift, iOS Development, C, C++ , Docker, CI/CD, Mocha, Selenium, Azure DevOps, Agile Methodologies, UX/UI Design, Linux, HTML, CSS, Bootstrap, SSL, Strapi.js, InVision, Apache, CLI, REST API, Raspberry Pi, Arduino, Processing, and Photoshop

EMPLOYMENT EXPERIENCE

Software Engineer Intern, *Visa, Austin, TX* (Summer 2020)
Software Engineer Intern, *Schlumberger, Houston, TX* (Summer 2019)

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

Creative Coder, Austin, TX (2019 – Present) - Designed, built, and programmed for commissioned LED art installations.

PROJECTS

- abhi.work – Designed and developed a creative and responsive portfolio site to showcase my achievements and projects. Technologies used: React, Django, AWS, Git, Docker, CI/CD, SSL, Postman, Apache, Python, Strapi.js, and InVision Studio. github.com/avelaga/portfolio
- bandtogether.events – Built a cross-platform, responsive, web application that scrapes public data sources to build an information portal using modern software engineering practices as part of a team. Technologies used: React, Django, Python, PostgreSQL, AWS, Git, Docker, REST API, CI/CD, JavaScript, SSL, Bootstrap, Selenium, Mocha, and Postman. github.com/avelaga/band-together
- *Inside Skoop* – Designing and developing an application that helps students find classes that fit their criteria for both the web and iOS devices. Technologies used: React, Django, Git, AWS, InVision, Swift, SSL, Docker, and PostgreSQL.
- Built a basic Operating System Kernel for a UNIX-like operating system.
- Designed and programmed a Darwinism/evolution simulation with graphics, natural tree drawing algorithms, terrain generation, multiple games, and generative art algorithms.
- Developed and showcased a virtual pet art installation involving object-oriented programming, Arduino, and LED strips to mimic natural animal behaviors and sensory response.
- Designed, built and programmed interactive LED light installations for Fortress Fest in Fort Worth, TX and *Acid Test* at Swan Dive in Austin, TX.
- 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, Flute, Composition, Recording, and Production. Released two full length albums and performed in an official SXSW Showcase and several cultural conventions with international audiences.
Film Photography - Conceptualized, shot, printed, and published a complete two photo series and featured on the cover of *Spark Magazine*.
Design – Designed UI and UX for several applications.