

KUSH PARMAR

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Skills

PROGRAMMING LANGUAGES

C++
Java
Javascript
BASH
SQL
Typescript
Python

FRAMEWORKS, LIBRARIES

React
Redux
Pytorch
Node.js
Express
Django
Mocha
Chai
SCSS
Jest

DEVELOPMENT TOOLS

Git
Heroku
Docker
Travis CI
AWS
Figma
Adobe XD

RELEVANT COURSEWORK

Deep Learning
Natural Language Processing
Interaction Design
Algorithm Design & Analysis
Operating Systems
Database Systems Implementation
Social Computing

COMPETITIONS

Webroot Coding Challenge
2018 10th/138
SDHacks 2019 ActivBody
Challenge 2nd/50 (approx)

Education

University of California, San Diego Sept. 2016 to Apr. 2021
B.S. Cognitive Science, Spec. Machine Learning and Neural Networks 2021
GPA - 3.3 Major GPA - 3.7 Minor - Computer Science

Employment

PowerPlay San Diego, CA
Full Stack Developer (Remote) Apr. 2020 to Oct. 2020

- Implemented Product tours using react-tour to increase user engagement
- Wrote responsive HTML emails using foundation for mails, and weekly Pdf reports
- Migrated codebase to Modular CSS architecture (SMACSS) reducing merge conflict frequency
- Developed documentation for internal CSS best practices used by 8 engineers
- Gave a talk on CSS architecture to 15 team members
- Utilized generator functions, and redux-saga reducing TTI, and superfluous actions
- Worked remotely in a SCRUM environment with a team of 9 engineers and 4 designers
- Scaled product from 0 to 100k users in just 4 months of launching
- **Technologies used: React.js, Redux, redux-saga, Node.js, Express, AWS (S3, SES), MongoDB**

Full-Stack Development Intern Bangalore, India
Dec. 2019 to Mar. 2020

- Founding member of B2B SaaS startup building a construction workflow management solution
- Implemented custom UI components for a progressive web application using React
- Developed REST API endpoints using the Express framework for Node.js
- Wrote unit, integration, and functional tests using Mocha - Chai, and Jest
- Worked remotely in a SCRUM environment with a team of 6 engineers, and 3 designers
- **Technologies used: React.js, Redux, Node.js, Express, AWS, MongoDB, Docker**
- **Link to website**

University of California, San Diego San Diego, CA
Front-End Developer Nov. 2019 to Current

- Developing, and maintaining multiple music visualization web applications
- Implemented dynamic time scaling reactive to framerate
- Added functionality to select, record and playback visualised audio, and add audio effects
- Migrated to Audio Worklets, which reduced latency, and glitching on less performant clients
- **Technologies used: React.js, React Context API, Web Audio API, Tone.js**
- **Link to Website**

Instructional Apprentice Sept. 2019 to Dec. 2019

- Tutored for "The Cognitive Consequences of Technology", a class with 300+ students
- Led discussion sections, and held weekly office hours
- Graded homework, and assisted in formulating exam material

Statistical Visual Computing Lab San Diego, CA
Full Stack Developer Apr. 2019 to Jan. 2020

- Worked on a product that allows inference of plankton species from image data in real-time
- Spearheaded a system redesign to migrate static website to a SERN web app for data labelling
- Team Lead for the web team, responsible for integration, API design, and implementation
- Implemented data collection, and inference pipeline with automation scripts in Python, and Bash
- **Technologies used: Node.js, Express, React, SQL, Pytorch, Bash, Python**

Projects

GGchat.io

- Implemented a web application to play online multiplayer games with friends, or strangers
- **Technologies used: Node.js, Express, Linode, Socket.io, Redux**

Distractiv

- Designed, and developed a full-stack mindfulness responsive web app using Node.js
- Implemented a full-stack express application end to end in the span of 10 weeks
- Worked in a team of 3, used need-finding, wireframing, a/b, and user testing methodologies for UX research
- **Technologies used: Node.js, Express, Heroku, Adobe XD, Google Analytics**

Discln & Thrive Magazine

- Developed, and maintained a news media website for the ultimate frisbee community, and the first youth LGBTQIA+ publication in India.
- **Technologies used: HTML, CSS, JS**