Ambareesh (Amby) Balaji

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Technical Skills

Languages: JavaScript (ES2015+), CSS3, SCSS, C++, C, Rust, Python, Scala, OCaml, Haskell
Tools and Frameworks: React, Redux, Vue, Webpack, Node.js, Mocha, GraphQL, Unix, MongoDB

Work Experience

Software Developer │ Rangle.io, Toronto, ON 🌐   *May-Aug 2017*

Worked in Scrum teams helping clients embrace cutting-edge web technologies in the following projects:

- React-Redux project and resource management app backed by AWS EC2, AWS Lambda, and mLab
  - Built UI widgets to help quickly identify excesses and deficits in staffing, saving a significant amount of management time and money long-term
  - Implemented branch builds for feature and testing branches and integrated them with CircleCI
  - Improved Docker, Webpack, and Babel configs for efficient development, testing, and deployment
- Vanilla JavaScript and SVG based interactive annual report web app built using Jekyll
  - Built an interactive timeline visualizer without using any external libraries or frameworks
  - Implemented CSS3 animations and transitions, and mouse and keyboard gestures, all from scratch
  - Delivered in just four one-week sprints and received a 100% value rating from the client

Projects

Jam Buddy │ React, WebAudio API   *Jul 2017-present*

- Working on an automatic karaoke web app that auto-generates a background track for the user's voice
- Wrote an algorithm that determines the musical scale using the dominant frequency in the user's voice

Sign Language Translator 🌐 │ Python2.7, Leap Motion Orion SDK   *Nov 2016*

- Worked on an American Sign Language to speech translator using a Leap Motion sensor
- Implemented algorithms that interpreted hand gestures to generate English words
- Helps the hearing and speech impaired better communicate with people not aware of ASL
- Won the First Place and the "Most Innovative Hack" award in Electric City Hacks 2016, Trent University, Peterborough

Education

University of Waterloo 🌐 │ Bachelor of Software Engineering (BSE)   *Sep 2016–Apr 2021*

Cumulative GPA: 3.95/4.0

Honours

National Scholarship $12000 │ Faculty of Mathematics, University of Waterloo

- One out of 12 Canada-wide

Activities and Interests

CSClub and WEEF Committee Member, University of Waterloo ● Rubik's Cube ● Chess ● Badminton