

## VISWAAS L. PRABUNATHAN

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### Skills Set

**Languages and Tools:** React.JS, React Native, Javascript ES6, Node.JS, HTML, CSS, Bootstrap, TypeScript, REST API, SaaSExpo CLI, iOS Testflight, C++ and Python [Pandas, TensorFlow]

**Relevant coursework:** Full Stack Web and Native Mobile Application Development, Software Engineering, Data Structures and Algorithms, Time and Space Complexities, Computer Architecture.

### Projects

#### Handler [React.js, Node.JS]

Dec 2020- Present

- Open source, cross-platform (iOS and android), social media where users can assign or perform monetized tasks.
- Taskmasters can create personal conversations with taskers. Uses Facebook OAuth
- **Learning Outcomes:** Full-stack application development, React.js, Facebook Open Authentication, Firebase authentication.

#### Sanctuary Chat [React Native]

Jan 2020 - June 2020

Senior Design Project

- Open source, cross-platform (iOS and android), private social media messenger featuring multi-factor authentication and end to end encryption.
- Users can create personal conversations, group conversations. Messages are deleted from the database once messages reach recipients. Uses asymmetric and symmetric encryption
- **Learning Outcomes:** Full-stack application development, React Native, NodeJS, Expo, iOS Testflight, Diffie Hellman Key Exchange, AWS Amplify, AWS Dynamo DB, TweetNaCl.js and AWS Cognito.

#### WarCraft 2 [C++]

Jan 2020 - March 2020

Software Engineering

- Collaborate on developing a look-alike of a Multiplayer strategy game by Blizzard Entertainment.
- Part of the Linux Team. Using ideal **coding conventions**, **design patterns** and **architectural styles**.
- Implementing the TCP network and lobby session interfaces, multiplayer play and feedback.
- Designing NPC, enemy AI and other game mechanics to facilitate smooth game play
- **Learning Outcomes:** **Rapid Application Development (RAD) Model**, **SCRUM**, Multiple Inheritance, ADTs.

#### SeatMe [JavaScript, C#]

17th-18th Nov 2018

Winner - Best IoT hack/ Sachacks 2018

- Co-developed, with a team of four, a web application to reserve and view vacant seats in public environments.
- Used pressure and ultrasonic sensor for real-time status of vacancies and occupants.
- **Learning Outcomes:** Bootstrap and Facebook API, Open Authorization (OAuth2), User-friendly front-end and back-end development.

### Certifications

#### Full-Stack Web Development with React Specialization [Javascript, React, Node.js]

Dec 2020 - Present

The Hong Kong University of Science and Technology (Coursera)

- Completed an online course on front-end and hybrid mobile development, with server-side support, for implementing a multi-platform solution.
- **Learning Outcomes:** Bootstrap 4, React, React Native, MongoDB, Node.js, Express

### Education

#### Bachelor of Engineering in Computer Science and Engineering

Graduated Fall 2020

University of California, Davis

### Work Experience

#### Computer Room Consultant

Sept 2017-Mar 2018

Computer Lab Management at UC Davis

- Provided faculty/students with professional computer consulting and administrative management services.
- Technically assisted with operating systems, network access, printing and software application issues.