

# Rakesh UP

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## EXPERIENCE

### Idyll-Lang — Open Source Contributor

DECEMBER 2019 - PRESENT

[Idyll](#) is a markup language and toolkit for writing interactive articles. Idyll's reactive document model and standard component library decrease the amount of code needed to create high-quality multimedia narratives.

- Implemented a TextMate based Sublime syntax highlighter for Idyll-Lang ([#1](#))
- Made minor enhancements like adding .jsx file extension support to Idyll-Lang compiler and scroll progress option. ([#603](#),[#601](#))

### Zoho Corporation, Chennai — Member Technical Staff

MAY 2017 - PRESENT

Worked in the IT management software division called **ManageEngine** on the product [Browser Security Plus](#) - Built the agent which currently has crossed 5k+ paid installations.

- Analyzed the market for features to develop and studied competitors to come up with a highly featureful product
- Read the entire Browser Extensions API guide and architected the browser extension for both [Chrome](#) and [Firefox](#) browsers
- Responsible for architecting, planning, and developing the native Windows App in Win32 and COM.
- Designed and developed a custom TCP long-lived connection protocol for the Windows App and the product's servers.
- Developed a low latency startup service and installable bundle for the product
- Built a Browser Helper Object for Internet Explorer browser to extend the product feature set.
- Developed the JAVA REST API and designed the SQL databases for a few modules
- Responsible for developing the licensing workflow and encryption of passwords in the server using Java Native Interface.

### Zoho Corporation, Chennai — Project Trainee

JAN 2017 - MAY 2017

Worked on Proof of Concept for **ManageEngine Browser Security Plus**

## SKILLS

**Languages:** JavaScript, C++, Java

**Libraries & Frameworks:** React, Node, Express, Win32, COM

**Databases:** Postgres, MySQL, MongoDB

**Tooling:** Webpack, Babel, Netlify, CSS Preprocessor, CI/CD, TDD, Progressive Web Apps

**Extension Development:** Chrome, Firefox, and Internet Explorer(BHO)

## EDUCATION

### Bachelors in Electronics and Communication Engineering

Rajalakshmi Engineering College, Chennai, India

2013 - 2017

and automation tools for **ManageEngine MDM**.

- Worked on [Chromium Cloud Policy](#) to analyze and architect features for Browser Security Plus.
- Built scheduled automated scripts for managing development tickets and customer issues.