

# 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.

- Implemented new grammar to support syntax for italicized and bold links ([#605](#))
- Built a compiler processor to embed P5JS sketches to Idyll documents ([link](#))
- Created a slideshow template for scaffolding Idyll projects ([#608](#))
- Added an alternate syntax to support LaTeX equations ([#607](#))
- Implemented a TextMate based Sublime syntax highlighter for Idyll-Lang ([#1](#))
- Made various other bug fixes and enhancements. ([#606](#), [#610](#), [#604](#), [#603](#), [#601](#), [#609](#))

### Zoho Corporation, Chennai — Member Technical Staff

MAY 2017 - OCTOBER 2019

A suite of cloud-based SaaS product for businesses

- Worked in a team of 6 to build [Browser Security Plus](#) - a tool to manage and secure the browsers across the organization
- The product generates \$100k+ of revenue per year
- Did market research and came up with features like - extensions management, blacklisting domains, and downloads, etc
- Built and architected a cross-browser extension for both [Chrome](#) and [Firefox](#) browsers to track user behavior
- Built a Browser Helper Object for Internet Explorer browser to extend the product feature set
- Worked in a team of 2 to build a native Windows App in Win32 and COM from scratch
- Worked in a team of 3 and used TCP long-lived connection protocol to communicate from our server to windows app, reducing a 90-minute poll cycle to realtime actions
- Developed the REST APIs and designed the SQL schemas for downloads and extensions inventory
- Worked on encryption of passwords in the server using Java Native Interface to make it GDPR compliant

Tech Stack:- JavaScript, C++, Java, PostgreSQL

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## SKILLS

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

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

**Databases:** Postgres, MongoDB

**Tooling:** Netlify, CI/CD, TDD

**Version Control:** Git, GitHub

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

## EDUCATION

### Engineering Fellow

[Pesto](#)

2020

### Bachelors in Electronics and Communication Engineering

[Rajalakshmi Engineering College, Chennai, India](#)

2013 - 2017

## **Zoho Corporation, Chennai — *Project Trainee***

JAN 2017 - MAY 2017

Worked in a team of 2 to build a proof of concept for Browser Security plus  
- a tool to manage and secure the browsers across the organization

- Used windows local group policy to provide multi-browser support
- Wrote a chrome extension to log all the installed extensions with their permissions
- Wrote a script to feed data into analytics DB and built charts helping managers improve the tracking of issues.

Tech Stack:- JavaScript, C++, Win32, Java