

# VIKRANT RAJAN | SOFTWARE DEVELOPER

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GitHub <https://github.com/vikrantRajan>

## PROFILE

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I am a software developer with over 8 years of industry experience (more than 4 years in software & nearly 4 years in design) specializing in frontend & backend software development with a background in UI/UX design.

## SKILLS

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**Game Development:** AR/VR, Unity, C#, 3D math, Object oriented programming

**Frontend Development:** HTML, CSS, SASS JavaScript (ES6, jQuery, React/Redux, Typescript, Vue.js, JSX, THREE.js)

**Backend Development:** Python, Node.js, PHP, SQL/NoSQL, MongoDB, Express.js, REST API, AWS, GCP

**Design:** Illustrator, Photoshop, After Effects, Premier Pro, Branding, Strategy, Copywriting

**Project Management | Version Control:** Agile, scrum, JIRA, trello, slack, discord | SourceTree, Fork, GitBash

## WORK EXPERIENCE

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### Quantiphi | Vancouver, BC | Senior Software Developer | December 2022 – Present

#### Finance management platform (2024)

- Integral part of the global team that is working on a finance management platform for iA Financials
- Led the implementation of Redux Saga & Toolkit which decoupled API logic from components.
- Optimized data fetching and storage in the redux state, combined with integration of graphql APIs. This improved memory usage and performance significantly, reducing loading time from 10-12 seconds to 1-2 seconds. Took ownership and successfully delivered multiple features with 80%+ unit test code coverage, including QA testing, deployment, with pixel perfect CSS and product demos
- Built a versatile table library from scratch supporting complex functionality, including interpolation of min-max width ranges, sticky headers, custom sorting (client & server side) and advanced CSS.
- Mentored junior engineers, reviewed several pull requests, set the standard for code quality on the frontend
- *Tech stack: GCP, Node.js, jest, React, Typescript, Redux Toolkit, Redux Saga, Tailwind CSS, Material UI*

#### Generative AI Chatbot (2024)

- Played a key-role in securing a multi-million-dollar contract for Quantiphi with Lactalis by architecting and leading the frontend development of a generative AI chatbot application.
- Developed a fully functional prototype alongside a team of machine learning & AI experts and project managers.
- *Tech stack: AWS CloudFront + S3, React, Typescript, Redux Toolkit, Material UI, WebSocket*

#### Educational platform (2023)

- Promoted to Senior Software Developer.
- Worked closely with AWS solutions architect and team to build an education platform for “Reading Partners”
- Responsible for building and maintaining 45+ APIs (microservices) from scratch
- Took ownership for multiple core features and delivered frontend & backend with end to end testing.
- Created a several custom libraries that drastically reused code & improved efficiency amongst all engineers.
- Performed code reviews on pull requests to identify SQL injection, syntax errors and to improve code quality, readability & scalability (for frontend and backend).
- *Tech stack: Python, AWS S.A.M, Lambda, S3, Secrets Manager, VPN, Cloud formation, CodeBuild, CodeDeploy, CodeCommit, Glue/ETL Job, MySQL Aurora, API Gateway / Open API, React, Typescript, Redux Toolkit, Redux Saga.*

### Quantiphi | Vancouver, BC | Software Developer | September 2021 – December 2022

- Was an integral part of the AWS Proserve team for the American finance company “Moody’s”.
- Architected, lead and developed multiple resilient automated failure-recovery ETL pipelines.
- Responsible for developing, testing, and deploying several ETL pipelines that work in collaboration with the existing data lake and 40 API services, which processes data in SQL & NoSQL with complex data mapping logic.
- Improved the system to process a million rows of data in a span of approximately 20 minutes, with an average of 0.034 seconds per row, it previously took 3-4 days for 3000 rows of data.

- Tech stack: Python, AWS S.A.M, Lambda, S3, DynamoDB, Cloud9 + EC2, Secrets Manager, VPN, Cloud formation, CodeBuild, CodeDeploy, CodeCommit, Glue/ETL Job, Spark SQL, API Gateway / Open API

### **Almond Tree Media Inc, Vancouver, BC | Full Stack Software Developer | November 2020 – September 2021**

- Responsible for developing and maintaining all customer facing frontend applications and 2 interconnected backend web applications for real estate agents to aid the process of buying, selling and renting property.  
- Developed and maintained the backend from scratch using AWS Amplify, and developed a central authentication system for all platforms that are tied to the storage system, with unique access rights for each type of user.  
- Deployed a Serverless Image Handler on AWS that provided cost-effective image manipulation which improved performance by reducing loading time from 25 seconds down to approximately 3 seconds, and reduced the number of files required on storage by 400%.

- Tech stack: MongoDB, Express.js, Vue.js, Node.js, Python, REST API, HTML/SASS/CSS, AWS Amplify: [CI/CD, Cognito, Admin Queries: API Gateway] Lambda, Route53, Cloudfront, Cloudformation, IAM and S3. Adobe Suite  
[Frontend portal website: <https://www.vealty.ca/services> ]

[Backend portal walkthrough video: <https://www.youtube.com/watch?v=0SFsgvPLhc&t=1s>]

### **Ogilvy, Mumbai, India | Designer | 10/2017 - 07/2018**

Promoted to a senior designer position. Mentored several junior designers. My role included UI/UX design, Web + Print Design, Social Media Marketing and Script Writing for JSW Cement, Cadbury and Center Fresh Mints.

### **Ogilvy, Mumbai, India | Junior Designer | 03/2015 - 10/2017**

Design & branding for ITC Savlon, TATA, Unilever Red Label Tea & Taj Tea, Cadbury, Bosch & Vodafone (radio, TV, outdoor, print & digital ads)

## **ACHIEVEMENTS**

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I was an integral part of the design team that worked on the Award-winning campaign “Savlon Healthy Hands Chalk Sticks”. The team combined chalk with soap to promote hand hygiene to children in rural India. The campaign received 4.3 million impressions on Twitter and 3.2 million on Facebook in 4 days of launch. It was declared as one of the best works of the decade according to the Cannes creativity report 2020.

Case Study: <https://www.youtube.com/watch?v=VhVfLoKqS1o>

## **CDM INDUSTRY PROJECTS**

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### **Software Developer / Project Manager | HIVE / UBC Faculty of Medicine, Vancouver, Canada | May – August 2020**

- Part of the team that conceptualized and developed a 3D immersive, interactive experience to educate healthcare providers about human anatomy in a virtual laboratory.

- Tech stack: Unity, C#, WebGL, PHP, MySQL, HTML/CSS, JavaScript

[Case study: <https://youtu.be/nR1m6z6ecJs?si=t9zGZhhsL9EesDNb>]

### **Canadian Blood Services (CBS), Vancouver, BC | Software Developer | January – April 2020**

- Part of the team that developed, tested, and deployed a virtual reality game to distract donors from the pain and anxiety of blood or needles during the blood donation process.

- Tech stack: MySQL, PHP, JavaScript, jQuery, HTML, CSS, Oculus Go, Unity, C#

[Case study: <https://www.youtube.com/watch?v=5qrB86PP6SM>]

## **EDUCATION**

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- **Masters In Digital Media**, Center For Digital Media (SFU, UBC, Emily Carr, BCIT) 09/2019 – 12/2020
- **Diploma In Web Development & Interaction Design**, Vancouver Institute of Media Arts 09/2018 – 09/2019
- **Bachelor of Arts**, Oklahoma City University 08/2012 - 05/2014
- **Advanced Diploma in Mass Communications**, MDIS and Oklahoma City University 03/2012 - 08/2012