# Chandrasekaraa RG

## FULL STACK SOFTWARE DEVELOPER

rgcsekaraa@gmail.com | 0426849761 | Brisbane, Australia | Sekaraa.com | LinkedIn | Github

---

## SUMMARY

I'm a Recent IT graduate from QUT with a Master's in Software Development, eager to apply my skills and grow in the field of full-stack development. Known for quick learning and adaptability, with a strong ability to solve problems, grasp new concepts and work collaboratively.

---

## SKILL SUMMARY

- **Languages:** JavaScript, TypeScript, Python, Bash, C, C++, C#, SQL, NoSQL, HTML, CSS3
- **Frameworks:** React, Next.js, Django, FastAPI, Node.js, Express.js, React Native, Tailwind CSS, Sass
- **Tools:** Docker, Git, eBPF, Postman
- **Platforms:** Github, Vercel, Heroku, AWS(EC2 Auto Scaling), Neon
- **Soft Skills:** Problem-solving, Teamwork, Fast learning, Adaptability
- **Additional Skills:** Data Structures and Algorithms, GraphQL, RESTful API

---

## WORK EXPERIENCE

**SOFTWARE RESEARCH INTERN | TRUSTED NETWORK LABS**         QUT, Brisbane | *Nov. 2023 - June. 2024*

- Developed and customised eBPF programs for peer-led research projects, improving system monitoring tools.
- Designed and implemented CLI-based tools to intercept system calls, enhancing network security capabilities.
- Gained hands-on experience with Linux commands and kernel architecture, contributing to system-level performance optimization.

**LEAD DEVELOPER (INDUSTRY IT PROJECT) - OREFOX**         QUT, Brisbane | *Mar. 2024 - June. 2024*

- Led a team of 4 developers to deliver a real time bushfire monitoring system using Django and PostgreSQL, based on client requirements, within 2 months.
- Quickly learned new technologies and built a real-time dashboard for fire activity tracking and alerts, integrating with mapping tools.
- Delivered the project on time, receiving full marks for the unit (7/7) due to successful implementation and meeting client expectations.

---

## PROJECTS

**WIKIVID - A platform that converts Wikipedia articles into video summaries using NLP techniques**.

- **Backend:** FastAPI with multiprocessing for Wikipedia API content fetching, summarization using Facebook's large BART language model, and summarised video generation using ffmpeg.
- **Database Storage:** DynamoDB stores status and metadata, while videos are saved in S3.
- **Frontend:** Node.js with Handlebars.js renders dynamic templates and interacts with FastAPI for video generation.

**BEING FOODIE - A web app for culinary exploration, helping users discover local cuisine.**

- **APIs Integration:** Built using Node.js with Handlebars.js, the Edamam API is passed as a parameter to the OpenAI API for accurate recipe measurements, and Google Maps latitude and longitude are passed to the OpenWeather API to display real-time weather information for nearby restaurants.

**TODORAMA** - **A Simple task management app that streamlines productivity with a modern UI.**
   - **Backend & Frontend:** Built entirely with **Next.js** for seamless integration between server-side rendering and dynamic frontend performance.
   - **Styling & Authentication:** Styled using **Tailwind CSS** and the **Shadcn** library for a clean design, with **Google SSO** for secure and quick authentication.
   - **Database Storage & Hosting:** Utilises **Prisma** and **Neon** for scalable database management, hosted on **Vercel** with a CI/CD pipeline integrated through **GitHub** for automated deployments.

**TIME UP?** - **A Chrome extension for time management and productivity enhancement.**
   - Built using JavaScript, HTML, and CSS for seamless browser integration.
   - Allows users to set time limits for browsing specific websites to encourage focused work.
   - Features notifications and alerts when time limits are reached.
   - Provides a user-friendly interface for tracking time and managing productivity efficiently.

---

## EDUCATION

**Master of Information Technology (Software Development)**          **Queensland University of Technology**
*Graduation: Aug. 2024*                                                                         Brisbane, Australia

**Bachelors of Engineering (Computer Science)**                                 **Panimalar Engineering College**
*Graduation: Jun. 2020*                                                                                  Chennai, India

---

## CERTIFICATES

**NDG LINUX ESSENTIALS | CERTIFICATE**                                                Issued Jan. 2024
   - Gained foundational knowledge of Linux operating systems and command-line operations.
   - Learned system administration, networking, and file management in a Linux environment.

**PROGRAMMING WITH JAVASCRIPT (COURSERA) | CERTIFICATE**          Issued Jun. 2023
   - Acquired hands-on experience in programming fundamentals using Javascript.
   - Completed real-world coding assignments focusing on problem-solving and algorithm development.

---

## HONORS & AWARDS
   - Best Paper Award for my academic research project, "Guardify: An eBPF-Based Real-Time Defense Mechanism for Secure PyPi and NPM Package Installations.
   - Recommended by a professor for a QUT student's startup (Clubseeker) to build their MVP 1.0 full-stack web app.

---

## ADDITIONAL INFORMATION
   - Available to start immediately.
   - Full working rights in Australia (485 Visa).
   - Willing to relocate for the right opportunity.