Raghav Jhavar

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EDUCATION

University of British Columbia, Okanagan
B.S. in Computer Science **2017-2021**
3.60GPA (CS: 88%, Overall: 80%)
3rd year • **Dean's list**

St. Andrews International School, Bangkok
International Baccalaureate **2015-2017**

SOFTWARE SKILLS

Languages Go, Java, Python, PHP, C#, JavaScript
Certifications
React / Redux (Udemy)
Elixir & Phoenix Framework (Udemy)

Interests Web development, Distributed systems, Machine learning

WORK EXPERIENCE

University of British Columbia, Okanagan **Kelowna, Canada**
Undergraduate Digital Assets and Technology Assistant **September 2019 – April 2020**

- Writing Python software to digitize Okanagan *(a region in British Columbia, Canada)* history into a public repository.
- Testing and modifying automated metadata conversion processes (CSV to XML) and developing technical documentation for management of repositories.
- Writing concurrent object-oriented python code, quality assurance, building executable applications, requirements gathering and refactoring existing applications. Software includes PyQt, BeautifulSoup, Selenium and RoboBrowser.

University of British Columbia, Okanagan **Kelowna, Canada**
Undergraduate Teaching Assistant (TA) **September 2018– August 2019**

- Picked from a sizeable pool of students to be a TA for two first year computer programming courses (Intro to Programming I and Intro to Programming II) taught in Java.
- Marked over 1000 unique assignments (including debugging and finding errors) and midterm exams.
- Achieved an average TA rating of 4.51/5.00 on teaching performance, communication and knowledge.

University of British Columbia, Okanagan **Kelowna, Canada**
Research Assistant **February 2018 – June 2018**

- Created a tool to scrape all courses (including prerequisites, corequisites, credits, equivalency, etc.) at UBC in Java generating all 2000+ courses & 66 disciplines in XML format.
- Made the tool multithreaded which lead to a ~50% reduction in scraping time.
- Used Java's built-in HttpURLConnection class and JSOUP (a Java library to parse and extract data from HTML).
- Wrote JavaScript to make all the course data available in JSON for front-end developers to use.

nwHacks Hackathon (Western Canada's largest hackathon) **Vancouver, Canada**
Programmer (Team member) **January 2019**

- Wrote a Java program to read.ics (calendar) files and identify students' schedule for the current semester.
- Used the data to identify overlapping available slots, to schedule group study sessions.

PERSONAL PROJECTS

- **Http server**: Wrote a fully operational HTTP server in Java using the HTTP/1.1 protocol including content encoding (compression)
- **ProxyGG**: Wrote a website in React/Redux using Golang for the backend and PostgreSQL for the database. Golang for the scraper too.
- **Captcha solver**: Software to solve captchas using Computer Vision.
- **Indoor navigation**: Working on software to allow for indoor navigation at my university.
- Wrote a **rotating proxy** in Java. Picks a random proxy from a pool and uses it to relay requests.
- Basic Java program to generate a target string using a **genetic algorithm** to understand fundamental concepts.
- **Created a website** (proxy.gg) that scrapes and check proxies from all over the internet and lists them. Wrote a **C# library** to consume the RESTful API. 100s of visitors daily.
- Wrote software to **sort groups of students into rooms on a residential trip**. The script took into account student preferences to create the groups.
- Wrote software that gathered thousands of recipes online and then a **RESTful API** to query them based on ingredients available.