


Raghav Jhavar

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EDUCATION

University of British Columbia, Okanagan
B.S. in Computer Science **2017-2021**
3rd year • Dean's list

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

SOFTWARE SKILLS

Languages Go, Java, Python, PHP, C#, JS

Certifications

Elixir & Phoenix Framework from Udemy
Spring Framework from Udemy (in progress)

Interests HackerRank, Concurrency, Scalable systems, Computer vision, Machine learning

WORK EXPERIENCE

University of British Columbia, Okanagan

Undergraduate Digital Assets and Technology Assistant

Kelowna, Canada

September 2019 – Present

- 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

Undergraduate Teaching Assistant (TA)

Kelowna, Canada

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

Research Assistant

Kelowna, Canada

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)

Programmer (Team member)

Vancouver, Canada

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)
- **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.
- **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.
- **Eatfnf:** Wrote code in PHP 7, HTML, CSS, JS. **Created a login system with phone & email verification.**
- Basic Java program to generate a target string using a **genetic algorithm** to understand fundamental concepts.
- 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.