Bao Kha Phan (Jay)

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EDUCATION

University of Waterloo - Wilfrid Laurier University   **Expected 2026**

Bachelors of Computer Science and Bachelors of Business Administration (Double Degree)

- Faculty Average: **96.0**/100
- President Award Scholarship

AWARDS

- 2023 ConUHack Best iOS - watchOS App (**1st**/ 800)
- 2022 USA Computing Olympiad **Silver** (/7398)
- 2022 Hack Your Tomorrow Award Winner (**4th**/100)
- 2022 Canadian Computing Contest Honor Roll (**149th**/3262)
- 2022 Euclid Math Contest Provincial Champion (**1st** / 200)
- 2021 Canadian Open Mathematics Challenge Provincial Champion (**1st** / 100)

WORK EXPERIENCE

Thinking Big Inc | C#, .NET, Angular, Nuke, TeamCity, Nginx   **May. 2022 – Sep. 2022**

Software Developer Intern   *Charlottetown, PEI*

- Developed a **5 million dollars PDF redaction tool** using .NET and Angular for the Government of Canada
- Supported the development of over **30 features** such as User authentication, Redaction management system and User access levels by designing, implementing and fully testing APIs with NUnit
- Improved the efficiency of **50+** developers by automating the generation of front-end TypeScript from backend .NET
- Reduced deployment time by **10%** through various contributions to CI/CD pipelines with Nuke and TeamCity
- Leveraged MVC design pattern to organize **230000+** lines of code into Angular View, TS Model and Controller Components

Project Tech Conferences | Python, Django, SQLite, React, Google API   **May. 2022 – Sep. 2022**

Full Stack Developer Intern   *Waterloo, ON (Remote)*

- **Led a team of four** working on a web application that helps with the university application process
- Organized daily stand-up meetings while delivering **50+ hours of training** and reviewing merge requests
- Developed **5 main features** by designing SQLite database, Django API endpoints and implemented responsive UI/UX
- Created a system to automatically integrate the content team's newsletter and podcast into the database, which is now used by **70+** colleagues

Kangen Inc | Python, HTML, CSS, SendGrid API   **May. 2021 – Sep. 2021**

Software Developer Intern   *Charlottetown, PEI*

- Designed a dynamic and responsive website for the company, **increasing mobile traffic by 200 %**
- Reduced operation cost by over **15%** by automating billings and customer follow-up using SendGrid Email API

PROJECTS

Skin?   **Swift, ARKit, Firebase Firestore, CreateML – In Progress**

- Developing an IOS app enabling users to **detect skin conditions** and view augmented reality demonstrations of causes.
- Utilizing machine learning techniques with CreateML to train a model for accurate condition detection.
- Implemented ARKit to provide an engaging and informative user experience through the use of augmented reality.

Scr-blr.io   **Co:here's NLP, Google Cloud, React, Django, CockroachDB**

- Built an automated meeting minutes platform that records, transcribes and summarizes audio into shareable files.
- Oversaw back-end development, configured Google Cloud Speech to Text API and Co:here's NLP text summarization.

Freezy   **Python, SKLearn, Numpy, Matplotlib, Bootstrap, Django, User Auth, GeoCoder**

- Developed a Web Marketplace that allows businesses to sell products nearing their best-before date
- Allowed users to browse stores, items and discounts near them by making use of GeoCoder for location tracking
- Implemented real-time chat capability between sellers and buyers with Django Channels
- Accurately computed the amount of inventory a business needs every day using Linear Regressions.

SKILLS & INTERESTS

- **Skills:** Python, Java , C, C++ , C#, Javascript, Typescript, Swift, SQL, MySQL, SQLite, HTML, CSS, GraphQL
- **Framework/Library:** Django, React, Redux, Angular, MongoDB, Express JS, Node JS, Socket.io, NUnit, CockroachDB, Google Cloud, Co:here's, REST API, Nginx, Firebase, NextJS, AWS Amplify
- **DevsOps:** GitHub. GitLab, TeamCity, Nuke, Docker, Linux