

Po-Chun Huang (Casper)

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EDUCATION

Fairleigh Dickinson University <i>May 2023 – December 2024 (Expected)</i>	Vancouver, BC
M.S. in Applied Computer Science	
Stony Brook University <i>September 2011 – January 2016</i>	Stony Brook, NY
B.Sc. in Applied Mathematics and Statistics	

PROFESSIONAL EXPERIENCES

Starts Foundation (Internship) <i>Full-Stack Developer</i>	Remote, USA <i>January 2023 – April 2023</i>
<ul style="list-style-type: none">Developed a responsive JAM stack web application with React.js, Express.js, Gatsby, GraphQL, integrating PayPal API for payment functionality as part of a collaborative seven-member team.	
FTSE Russell - London Stock Exchange Group (Full-time) <i>Quantitative Developer</i>	Taipei, Taiwan <i>October 2021 – April 2023</i>
<ul style="list-style-type: none">Developed and optimized 20 quantitative models and algorithms using SQL and Python, adapting to client needs and producing performance reports for strategic decision-making.Led the development of a cloud-based real-time error-checking system for internal index review, ensuring scalability, efficiency, and accuracy in the process.	
<i>Python Developer</i>	<i>August 2019 – September 2021</i>
<ul style="list-style-type: none">Developed a Python and SQL-based software application that significantly optimized global index review processes, achieving a 90% increase in efficiency and 50% improvement in accuracy by leveraging advanced data structures and algorithms.	

SELECTED PROJECTS

Music Discovery – Advanced web application for personalized music.	<i>November 2023 – February 2024</i>
<ul style="list-style-type: none">Developed an advanced web application utilizing React.js for the frontend, Express.js and MongoDB for the backend, and a Python-based data processing server employing a TensorFlow machine learning model for the recommender system.Integrated the Spotify API and OpenAI's GPT to facilitate dynamic playlist creation and management, enhancing the user experience with highly tailored music recommendations.	
Ticketing – Secure and efficient ticketing platform with integrated payment services.	<i>May 2023 – August 2023</i>
<ul style="list-style-type: none">Developed using a microservices architecture, MongoDB, Express.js, React.js, and TypeScript, with Docker and Kubernetes ensuring scalable service deployment.Prioritized security with cookie-session and JSON Web Tokens for authentication, and enhanced user experience with a 15-minute order expiration feature.Incorporated Stripe API for payment processing, utilized npm for common modules, and applied server-side rendering with Next.js for improved performance.Implemented a robust CI/CD pipeline enhancing version control and deployment efficiency.	
FioNote – MERN stack web app deployed on AWS EC2 to manage tasks with friends.	<i>April 2023 – May 2023</i>
<ul style="list-style-type: none">Developed with MongoDB, Express.js, React.js, Node.js, enhancing user productivity with full CRUD operations and real-time SocketIO notifications.Enabled dynamic user interaction with integrated friend request and task sharing capabilities, fostering a collaborative user environment.	

TECHNICAL KNOWLEDGE

Programming Language:	Python, Java, C, JavaScript, SQL, HTML, CSS
Database:	MongoDB, MySQL, MS SQL, AWS RDS, PostgreSQL
Frameworks/Tools/OS:	React, React Native, Express.js, Next.js, TypeScript, Git, GitHub, Docker, Kubernetes, AWS EC2, NumPy, Pandas, TensorFlow, PyTorch, Linux, Spark
Relevant Coursework	Computer Algorithms, Software Engineering, Operating System, System Programming, Distributed Database Systems, Big Data Analytics, Machine Learning