

PO-KAI (BRIAN) CHAO

Toronto, ON
(647) 960-9171 | pchao8@my.centennialcollege.ca
[LinkedIn](#)

SOFTWARE DEVELOPER

C# | Full-Stack Development | Project Management

- 7+ years of professional experience as a Software Developer, specializing in C#, object-oriented programming, and tool creation to enhance workflow efficiency.
- Current student of the Software Engineering Technology Advanced Diploma at Centennial College; holds a Master's in Mechanical Engineering from National Taiwan University.
- Solid knowledge of Agile and Scrum practices, and application of the software development life cycle.
- Developed secondary tools for AutoCAD in C++ and 3D models using SolidWorks, with practical experience as a teaching assistant for SolidWorks during graduate studies.
- Contributed to multiple projects in the manufacturing industry, gaining practical insights into project management.

TECHNICAL SKILLS

Programming:	C#, Java, Python, JavaScript, HTML/CSS
Database:	SQL, MongoDB
Frameworks & Libraries:	.NET, Flask, Angular, Node.js
Testing:	Postman
Tools & Technologies:	Android Studio, Git, SVN, SolidWorks

WORK EXPERIENCE

Software Engineer | Xiangyi Corp., (Taichung, Taiwan) Apr. 2018 - Jun. 2024

- Developed slot game logic in C# for seamless integration with the frontend, resulting in well-maintained interfaces.
- Designed and implemented mathematical models in slot games to accurately calculate expected values, enhancing game balance and player experience.
- Created an abstract class and unit test framework using design patterns, reducing development and maintenance time by 30% and significantly boosting team productivity.
- Automated document-to-code transformation processes, minimizing manual coding errors and reducing coding time.
- Developed tools integrating MongoDB with Python and C#, optimizing data storage and retrieval processes for multiple applications.

Software Engineer | Jabil Green Point Co., Ltd., (Taichung, Taiwan) Sep. 2017 - Mar. 2018

- Developed an automated document transfer service in C#, streamlining the connection between the CAD/CAM department and the mold manufacturing system, reducing maintenance effort and simplifying software development.
- Designed and maintained an automation system for the Coordinate Measuring Machine (CMM) using C++, improving operational performance and enhancing usability for staff.

Software Application Engineer | Anderson Corp. (Miaoli, Taiwan) Jun. 2015 - Aug. 2017

- Developed an automated labeling control system in C#, eliminating manual label placement and reducing operator time per item from 1–3 minutes to zero.
- Improved parametric modeling for customizable furniture by adding adjustable drill positions, reducing machine operation time by approximately 30%.
- Designed custom software solutions to meet client needs, ensuring flexibility and integration with existing systems.

Mechanical Engineer | Teco Electric and Machinery Co., Ltd (Taoyuan/Taiwan) Sep. 2014 - May. 2015

- Designed customized large and high-voltage motors to meet client requirements and ensure operational efficiency.
- Supported the verification process for flameproof motors, ensuring compliance with safety and regulatory standards.

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EDUCATION

Advanced Diploma - Software Engineering Technology (Co-op)

Sep. 2024 - Present

Centennial College, Toronto, ON

- Key Courses: Testing & QA | Web App Development | Java | Mobile App Development | Software Systems Design
- Project: Designed a Software Specification Requirements (SRS) document, including creating UML diagrams and establishing functional/non-functional requirements for streaming system.

Master of Science - Mechanical Engineering

Sep. 2010 - Aug. 2013

National Taiwan University, Taipei, Taiwan

- Developed a rotor design tool in C++ using the MFC framework as part of an AutoCAD secondary development project, creating a user interface to set parameters and automate model generation within AutoCAD.
- Implemented rotor design algorithm in AutoLISP, enabling seamless integration and automation. This tool was adopted by an industry-academia collaboration company, reducing design time significantly.
- Teaching Assistant: Guided students in learning SolidWorks, enhancing their proficiency in 3D modeling & design.

Bachelor of Science - Mechanical Engineering

Sep. 2006 - Jun. 2010

National Central University, Taoyuan, Taiwan

- Designed 3D chassis using SolidWorks and performed stress analysis with Cosmos simulation, ensuring structural integrity and achieving weight optimization for improved functionality.