

ZHOU Changhui

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Education

- Ningbo Xiaoshi High School International Center**, International Baccalaureate® (IB) Diploma Programme Sept 2023 - June 2026
- **Predicted Grade:** Unknown/45
 - **Courses:** Chinese A Lit SL, English B HL, Environmental Science and Societies SL, Mathematics AA HL, Chemistry SL, Physics HL.
- Ningbo Xiaoshi High School International Center**, International Baccalaureate® (IB) Diploma Programme Sept 2023 - June 2026
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Experience

- Apple**, Software Engineer Cupertino, CA
June 2005 – Aug 2007
- Reduced time to render user buddy lists by 75% by implementing a prediction algorithm
 - Integrated iChat with Spotlight Search by creating a tool to extract metadata from saved chat transcripts and provide metadata to a system-wide search database
 - Redesigned chat file format and implemented backward compatibility for search
- Microsoft**, Software Engineer Intern Redmond, WA
June 2003 – Aug 2003
- Designed a UI for the VS open file switcher (Ctrl-Tab) and extended it to tool windows
 - Created a service to provide gradient across VS and VS add-ins, optimizing its performance via caching
 - Built an app to compute the similarity of all methods in a codebase, reducing the time from $\mathcal{O}(n^2)$ to $\mathcal{O}(n \log n)$
 - Created a test case generation tool that creates random XML docs from XML Schema
 - Automated the extraction and processing of large datasets from legacy systems using SQL and Perl scripts

Publications

- 3D Finite Element Analysis of No-Insulation Coils** Jan 2004
- Frodo Baggins, **John Doe**, Samwise Gamgee
- [10.1109/TASC.2023.3340648](#) 🔗

Projects

- Multi-User Drawing Tool** [github.com/name/repo](#) 🔗
- Developed an electronic classroom where multiple users can simultaneously view and draw on a "chalkboard" with each person's edits synchronized
 - Tools Used: C++, MFC
- Synchronized Desktop Calendar** [github.com/name/repo](#) 🔗
- Developed a desktop calendar with globally shared and synchronized calendars,

allowing users to schedule meetings with other users

- Tools Used: C#, .NET, SQL, XML

Custom Operating System

2002

- Built a UNIX-style OS with a scheduler, file system, text editor, and calculator
- Tools Used: C

Technologies

Languages: C++, C, Java, Objective-C, C#, SQL, JavaScript

Technologies: .NET, Microsoft SQL Server, XCode, Interface Builder