

# Jaepil Choi

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## Welcome to RenderCV!

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RenderCV is a LaTeX-based CV/resume framework. It allows you to create a high-quality CV or resume as a PDF file from a YAML file, with **full Markdown syntax support** and **complete control over the LaTeX code**.

The boilerplate content was inspired by Gayle McDowell.

## Quick Guide

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- Each section title is arbitrary and each section contains a list of entries.
- There are 7 unique entry types: *BulletEntry*, *TextEntry*, *EducationEntry*, *ExperienceEntry*, *NormalEntry*, *PublicationEntry*, and *OneLineEntry*.
- Select a section title, pick an entry type, and start writing your section!
- Here, you can find a comprehensive user guide for RenderCV.

## Education

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**University of Pennsylvania**, BS in Computer Science Sept 2000 – May 2005

- GPA: 3.9/4.0 (a link to somewhere)
- **Coursework:** Computer Architecture, Comparison of Learning Algorithms, Computational Theory

## Experience

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**Software Engineer**, Apple – 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

**Software Engineer Intern**, Microsoft – 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

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**3D Finite Element Analysis of No-Insulation Coils** Jan 2004

Frodo Baggins, *John Doe*, Samwise Gamgee  
10.1109/TASC.2023.3340648

## Projects

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**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**

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

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