

# Abdullah Al Amin, Ph.D.

📍 Dayton, OH 📩 aamin1@udayton.edu ☎ +1 857 231 0198 🌐 smalt.dev 💬 neoceph 🌐 alamin-research

## Research Interests

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**RenderCV** is a LaTeX-based CV/resume version-control and maintenance app. It allows you to create a high-quality CV or resume as a PDF file from a YAML file, with **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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BS	<b>University of Pennsylvania</b> , Computer Science	Sept 2000 May 2005
	<ul style="list-style-type: none"><li>• GPA: 3.9/4.0 (<a href="#">a link to somewhere</a>)</li><li>• <b>Coursework:</b> Computer Architecture, Comparison of Learning Algorithms, Computational Theory</li></ul>	

## Experience

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<b>Apple</b> , Software Engineer	Cupertino, CA
<ul style="list-style-type: none"><li>• Reduced time to render user buddy lists by 75% by implementing a prediction algorithm</li><li>• 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</li><li>• Redesigned chat file format and implemented backward compatibility for search</li></ul>	June 2005 Aug 2007
<b>Microsoft</b> , Software Engineer Intern	Redmond, WA
<ul style="list-style-type: none"><li>• Designed a UI for the VS open file switcher (Ctrl-Tab) and extended it to tool windows</li><li>• Created a service to provide gradient across VS and VS add-ins, optimizing its performance via caching</li><li>• Built an app to compute the similarity of all methods in a codebase, reducing the time from <math>\mathcal{O}(n^2)</math> to <math>\mathcal{O}(n \log n)</math></li><li>• Created a test case generation tool that creates random XML docs from XML Schema</li><li>• Automated the extraction and processing of large datasets from legacy systems using SQL and Perl scripts</li></ul>	June 2003 Aug 2003

## Publications

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<b>3D Finite Element Analysis of No-Insulation Coils</b>	Jan 2004
Frodo Baggins, <b>John Doe</b> , Samwise Gamgee <a href="#">10.1109/TASC.2023.3340648</a>	

## Projects

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### Multi-User Drawing Tool

- 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

[github.com/name/repo](https://github.com/name/repo) ↗

### Synchronized Desktop Calendar

- Developed a desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users
- Tools Used: C#, .NET, SQL, XML

[github.com/name/repo](https://github.com/name/repo) ↗

### 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