Joey (Yifan) Zhu

Boston, MA; Shanghai, China

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EDUCATION

Boston University College of Arts and Sciences, Boston, MA — May 2025

Bachelor of Arts in Computer Science

Minor in Business Administration

Core Coursework: Computer Architecture, Embedded Systems, Computing Systems, Concepts of Programming Language, Information Security, Computer Graphics, Algorithms and Analysis, Intro to AI.

Academic Honors: **Department Prize for Academic Excellence** (Awarded to 5 students among 400+ CS graduates).

Completed 4-year undergraduate program in 2.5 years.

Study Abroad: **Boston University London,** UK, Summer 2023; **Seamester**, Caribbean, Summer 2022.

Co-Curriculars: **Upsilon Pi Epsilon** (Computer Science Honor Society); **BU CSSA**, President.

Academic Projects

RISC-V CPU Design — Spring 2025

- Designed and implemented a partial RV32I RISC-V CPU using SystemVerilog and Vivado, including the control unit, register file, ALU, AXI-Lite interface, and testbenches for individual components.
- Successfully executed basic RISC-V assembly programs loaded in its memory, demonstrating correct instruction fetch, decode, execution, memory access, and write-back stages.
- Gained hands-on experience in hardware design, laying the foundation and inspiration for future work in computer architecture and FPGA development.

Embedded Systems - Amazing Ball System — Spring 2025

- Developed firmware in C using MPLAB IDE and ran on a dsPIC microcontroller, in a team of three.
- Implemented real-time ball-balancing on a 2D platform, using servos and a touchscreen.
- Learned and implemented basic functionalities such as UART and ADC Sampling.
- Developed practical skills in embedded software development, preparing for industry applications control systems.

RELAVENT EXPERIENCES

Fudan University, Shanghai, China — Jul 2024 - Aug 2024

Research Assistant

- Assisted a PhD student in translating and analyzing a 7-page research paper titled *Programmatic Imitation Learning from Unlabeled and Noisy Demonstrations*.
- Examined over 1,000 lines of C++ and Python code to compile a comprehensive 10-page summary.
- Configured local development environments to replicate and validate experimental setups.
- Developed strong skills in interpreting research literature, fostering a passion for innovative product development.

Chinese Students and Scholars Association (BUCSSA), Tech Department, Boston, MA — Sep 2023 – Jan 2025

Department President / Lead Developer

- Effectively partnered with five departments to design, develop, and implement internal software tools serving over 800 students, streamlining club operations, using React.js, Flask, MySQL, and AWS.
- Managed full web application development cycle while taking leadership responsibilities and fostering effective communication across diverse teams.

SKILLS

- **Programming Languages:** *Intermediate*: C, Java, Python, SystemVerilog, HTML/CSS/JS, OCaml.
  Beginner: Assembly, Rust.
- **Frameworks/Tools:** Linux, Vivado, Git/Github, Latex, React.js, Flask, MySQL, AWS (EC2, S3), Postman.
- **Languages:** Mandarin (Native), English (Bilingual), Japanese (Beginner).

AWARDS

Civic Tech Hackathon | Best in Social Welfare Category out of over 80 students — Feb 2023

HopHacks Hackathon | Awarded New Venture Prize and ranked top 10 out of 50 submissions — Sep 2023

朱义凡

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教育背景

波士顿大学 文理学院 **美国，马赛诸塞州，波士顿**
计算机专业 学士 2023 年 1 月 - 2025 年 5 月
相关课程: 计算机体系结构、嵌入式系统、计算机系统、程序设计语言原理、信息安全、算法与分析。
学术荣誉: **计算机学术优秀奖**（400+名计算机毕业生中仅 5 人获此殊荣）; **两年半内完成四年本科课程**。
海外学习: **波士顿大学伦敦分校**（英国）暑假交流 | 2023 年夏季; **Seamester** 环加勒比海航海项目 | 2022 年夏季
课外活动: **Upsilon Pi Epsilon** (计算机荣誉学会)，部员; **波士顿大学中国学生学者协会**，部长。

学术项目

RISC-V CPU 设计 2025 年春季

- 技术栈：SystemVerilog, Vivado。
- 基于 RV32I 指令集，自主设计、测试、实现 RISC-V CPU 核心模块，包括控制单元、ALU 及 AXI-Lite 接口。
- 成功在 FPGA 上运行基础 RISC-V 汇编程序，完整验证取指、译码、执行、访存、写回五级流水线。
- 掌握从硬件设计到功能验证的开发流程，为后续计算机体系结构学习及 FPGA 开发奠定基础。

嵌入式球体平衡系统开发 2025 年春季

- 技术栈：C 语言、MPLAB IDE、dsPIC33 微控制器。
- 3 人组开发基于 PD 算法、伺服电机、与触摸屏的实时 2D 球体平衡控制系统。
- 掌握嵌入式固件开发技能，积累工业控制系统的实战经验。

相关经历

复旦大学 | 中国 上海 2024 年 7 月 – 2024 年 8 月
科研助理

- 协助博士生完成翻译与解析 7 页研究论文《Programmatic Imitation Learning from Unlabeled and Noisy Demonstrations》，并本地验证实验团队的 1000+行 C++与 Python 代码。
- 撰写 10 页技术报告，系统性归纳论文方法、实验结果及代码架构。
- 提升科研文献解读能力，培养创新研发思维，并奠定学术研究的实践基础。

波士顿大学中国学生学者协会技术部 | 美国 波士顿 2023 年 9 月 – 2025 年 1 月
部长/主开发工程师

- 主导开发并运营用户量 800+的内部管理系统（前端 React.js + 后端 Flask + MySQL 数据库 + AWS 部署），协同 5 个部门优化工作流程，提升运营效率。
- 负责网页应用全栈与全周期开发（从需求分析到部署维护），带领 20 人团队完成网页开发与维护，强化技术领导力与跨部门沟通能力。

专业技能

- **编程语言:** *熟练应用*: C、Java、Python、SystemVerilog、HTML/CSS/JS、OCaml。
  基础掌握: 汇编语言 (Assembly)、Rust。
- **开发框架与工具:** *芯片设计:* Vivado、Linux 开发环境。
  协作: Git/Github、Latex (技术文档排版)。
  全栈开发: React.js、Flask、MySQL、AWS (云端部署)、Postman (API 测试)。
- **语言能力:** 普通话 (母语)、英语 (双语流利) 。

荣誉奖项

Civic Tech 编程马拉松 | 社会福利赛道最佳项目奖（80+ 参赛团队） 2023年2月
霍普金斯大学HopHacks 编程马拉松 | 新创企业奖（50+ 项目Top10） 2023年9月