JULIAN BELL

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EDUCATION

Columbia University, Master of Computer Science   Expected Dec 2024
GPA: 3.75/4, *Concentration in Distributed Systems*   *New York, NY*

- *Activities*: Software Engineer for Columbia Build Lab, research at Columbia Data Science Institute.
- *Selected courses*: Operating Systems, Machine Learning, Distributed Systems, Networks, Private Systems.

University of Pennsylvania, Bachelor of English   Sept 2015 - May 2019
GPA: 3.74/4   *Philadelphia, PA*

- *Activities*: Senior Features Editor for 34th Street Magazine, Writer for Bloomers Comedy.

WORK EXPERIENCE

Software Engineer Intern   June 2024 - Aug 2024
Carnegie Learning   *New York, NY*

- Developed internal automation tools in Python using OpenAI APIs and other generative AI models.
- Used supervised learning algorithms to optimize tools' results and provide end users with ranked choices.

TA for Data Structures in Java   Sept 2023 - present
Columbia University   *New York, NY*

- Held office hours for students in core Computer Science class to provide instruction on programming homework.
- Led recitations to review course material, graded students' homework, developed exam questions.

Product Manager   Oct 2020 - May 2022
Piano Software   *New York, NY*

- Managed user management features for e-commerce software platform used by media companies.
- Specified requirements and oversaw development for features related to identity, authorization, and user profiles.
- Met with clients and technology partners to communicate and refine new features.

Business Analyst   June 2019 - Oct 2020
Piano Software   *Philadelphia, PA*

- Created feature requirements from industry research and business needs and managed Jira backlog.

RECOGNITION & PROJECTS

Distributed Research Apprenticeships for Master's grant. Won NSF-funded grant to conduct research project increasing performance of parallel, in-memory queries at Columbia Data Science Institute in Summer 2023.

Programming tutorials. Published a series of tutorials on React and Node.js with over 635K views total on Medium. Associated GitHub repos have over 90 stars.

Biodesign Challenge Finalist. Prototyped sustainable corn-based textile as part of a university group and recognized in biotechnology product competition. Project also selected to exhibit at London Design Festival 2019.

SKILLS & INTERESTS

Proficient languages	C, C++, Java, Python, Golang (Go), JavaScript, CSS/Sass, SQL
Frameworks and tools	REST, React, Node, Next.js, OpenAI, Flask, Git, vim, MongoDB
Interests	Weightlifting, *Survivor*, neuroscience, fashion