Jeongbin Sean Park

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SUMMARY

Detail-oriented software engineer with a strong foundation in Mathematics, Computer Science, and Finance. Experienced in designing responsive web applications, optimizing system performance, and solving complex problems. Passionate about creating cutting-edge solutions at the intersection of technology and innovation.

EDUCATION

University of California San Diego — La Jolla, CA
Bachelor of Science – BS, Major in Mathematics - Computer Science — *June 2024*
Bachelor of Science – BS, Minor in Finance — *June 2024*

- **Awards/Honors:** 4× Provost's Honors Recipient
- **Extracurricular Activities:** KASA, ACM, UCSD BJJ, CSE Tutor
  * **Computer Science:** Data Structures, Object-Oriented Design, Algorithms, Advanced Data Structures, Programming Languages: Principles and Paradigms, Linear Algebra, Statistical Methods in Computer Science, Computer Graphics
  * **Mathematics:** Calculus, Graph Theory, Linear Algebra, Numerical Analysis, Statistical Methods in Computer Science, Cryptography
  * **Finance:** Financial Accounting, Managerial Accounting, Business Finance, Enterprise Finance, Microeconomics, Macroeconomics, Investment Banking

PROJECTS

Portfolio Website (binni.dev) | *Vue.js, Express, Tailwind CSS* — Feb 2024 – Present
- Designed and developed a responsive portfolio website to showcase technical expertise and projects, attracting potential employers with an online presence.
- Optimized load times by **18%** using **Tailwind CSS** and **Vue.js** for its lightweight framework, enhancing website performance and user experience.
- Deployed the website via **Vercel**, with a streamlined CI/CD pipeline leveraging **Vercel CLI** and **Vercel Web Analytics** for performance insights.

Credit Card Points Tracker | *React, Django, PostgreSQL, Redis, PyTorch* — July 2024 – Present
- Developed a **React**-based web application to track and analyze transactions, empowering users to optimize points and rewards harnessing a custom algorithm for transaction insights.
- Automated data scraping with **Selenium** and **Celery**, leveraging **Redis** for caching rewards multipliers and **PostgreSQL** for robust transaction storage, achieving a **30%** improvement in processing speed.
- Integrating **PyTorch** with **Django** to automate data cleaning and develop a recommendation system for identifying the best credit card based on users' spending patterns.

Youtube Clone | *TypeScript, Next.js, Express, Docker, Google Cloud Services, Firebase* — Nov 2024 – Dec 2024
- Built a secure video processing platform with **Node.js** and **Google Cloud**, featuring integrated video compression using **FFmpeg**, asynchronous message handling with **GC Pub/Sub**, and end-to-end security with **GC Storage**.
- Implemented secure user authentication with **Firebase Authentication**, incorporating email/password login and token-based authorization to protect user data and ensure a seamless sign-in experience.
- Acquired experience with best practices for system design and scalability, focusing on building modular, maintainable code and optimizing resource usage for high-performance applications.

Game Feature Development | *Java, Maven, Gradle, Kotlin, Spigot* — Nov 2020 – Apr 2021
- Developed custom plugins using **Java** and **Kotlin** to enhance gameplay mechanics, tailoring features to user preferences and improving overall player engagement.
- Deployed plugins to a live hosted server, ensuring consistent up-time and supporting a community of over **100 daily active players**.
- Collaborated with users and team members to gather feedback, iteratively refine features, resolve bugs, and optimize plugin performance.

Revamped Personal Portfolio (In Progress) | *React, Three.js, Blender, Tailwind CSS* — Dec 2024 – Present

- Redesigned original personal portfolio website to feature advanced animations with **Three.js** and interactive components using **React**, showcasing modern web development practices.
- Created custom 3D models and animations in **Blender**, seamlessly integrating them onto the canvas to elevate user engagement and demonstrate technical creativity.
- Currently integrating advanced 3D animations with **Three.js** and **React Three Fiber**, including interactive camera controls and scene manipulation, while leveraging low-polygon meshes and texture mapping.

EXPERIENCE

UCSD CSE Department
CSE Tutor

Sep 2023 – Mar 2024
La Jolla, CA

- Delivered personalized and group tutoring sessions on topics from introductory programming to advanced algorithms, adapting lessons to coursework requirements and individual learning goals.
- Led tutoring sessions ranging from one-on-one instruction to group discussions with over **30 participants**, fostering an interactive and supportive learning environment.
- Achieved measurable academic success, with **72%** of students reporting improved understanding and average grade received in the class being **B+**, based on end-of-quarter student surveys.

New-Sol
Software Engineer Intern

June 2021 – Sep 2023
Seoul, South Korea

- Collaborated with a team of engineers to design and develop broadcasting software deployed across **6,000+** devices in **13 districts** of Seoul, South Korea, gaining valuable insight into software-hardware integration.
- Implemented scalable broadcasting systems solutions, enhancing performance and ensuring seamless operation while gaining hands-on experience with **C++**, **Python**, and **SQLite**.

Outlier
Freelance Coder & AI Training

May 2024 – Nov 2024
Remote

- Enhanced AI model accuracy from **88% to 92%** by refining datasets and conducting rigorous validation of LLM-generated coding responses, improving reliability in customer-facing applications.
- Leveraged deep learning architectures and natural language processing methodologies to improve the reliability and scalability of AI solutions.

TECHNICAL SKILLS

Programming Languages: Java, Python, C/C++, JavaScript, TypeScript, R
Frameworks: React, Vue.js, Django, Express.js, Tailwind CSS
Cloud Platforms: AWS, Google Cloud Platform
Database Systems: PostgreSQL, MongoDB, SQLite, Redis
Libraries: Numpy, pandas, MatPlotLib, seaborn, PyTorch, REST, OpenGL, Three.js
Developer Tools: Docker, Node.js, Git, Linux, GDB

CERTIFICATES

AWS Certified Cloud Practitioner
Renewal In Progress

SKILLS

Languages: English (Fluent), Korean (Fluent)
Hobbies: Jiu-Jitsu, Golf, Surfing