Kevin Dong

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Education

University of Pittsburgh, Pittsburgh, PA ***Expected Graduation: April 2027***

GPA: 3.792 / 4.000

Bachelor of Science (*BS*): Major in ***Computer Science***, Minor in ***Information Science***

Coursework: Discrete Structures, Linear Algebra, Intermediate Java Programming, Intermediate Website Design & Development, Computing for Humanities, Algorithms & Data Structures, Computer Organization & Assembly, Software Engineering, Introduction to Systems Software, Introduction to Data Science, and Formal Methods.

Skills

Languages: Java, Python, HTML/CSS, JavaScript, TypeScript, C

Certifications: Introduction to Artificial Intelligence, Software Development, System Administration, Generative AI (Microsoft)

Tools: React, Flask, Tailwind CSS, Next.js, Firebase, Git, pandas, NumPy, Matplotlib, Jupyter, PyGame, Figma, Microsoft Suite

Professional Experience

Classroom and Event Services Student Employee ***May 2024 – Present***

University of Pittsburgh

- Provided live, on-site, and urgent technical support for large lecture halls with 200+ students, troubleshooting AV systems, projectors, audio equipment, smart boards, and classroom technology issues for 600+ faculty to ensure smooth lectures and events.
- Configured and deployed Linux, macOS, and Windows machines each semester for university device lending programs, preparing standardized software environments with automated provisioning scripts and ensuring network readiness for campus operations.
- Resolved 3,000+ technical issues annually across 60+ academic buildings through systematic troubleshooting methodologies, while filming and overseeing lecture capture recordings and delivering faculty training on Panopto/Zoom platforms.

SMART Desk (IT) Student Technician ***Aug. 2022 – May 2024***

Montour School District

- Conducted comprehensive root-cause analysis using advanced diagnostic tools and software to rapidly identify and resolve complex system failures, minimizing downtime and extending device lifecycles across the district's technology fleet.
- Diagnosed and repaired hardware failures (GPU, power supply, motherboard, keyboards), restoring devices to full functionality.
- Provided one-on-one Chromebook technical support and maintenance, reducing support requests through proactive user education.

Projects

Calendar Syncer: AreWeFree?

- Created group scheduling tool to solve coordination challenges by enabling drag-and-drop .ics file uploads, visual conflict detection, color-coded calendars, and PNG export functionality for easy sharing among student project teams.
- Developed using Next.js, TypeScript, and Tailwind CSS with ical.js integration for calendar file parsing, dynamic UI rendering with shadcn/ui components, and HTML-to-image conversion for schedule exports.

Pittsburgh Livability Index: Multi-Metric Neighborhood Assessment

- Developed a comprehensive neighborhood ranking algorithm analyzing 61,000+ data points across three safety and quality metrics (311 service requests, fire incidents, and arrest records) to determine Pittsburgh's optimal residential areas using Python and data science techniques.
- Implemented statistical analysis and data visualization features in Jupyter Notebook to generate comparative charts and graphs, effectively communicating neighborhood safety trends and demographic insights to stakeholders.
- Collaborated with a team of 3 using GitHub for version control and project management, presenting analytical findings and technical methodology to an audience of 30+ participants.

LaunchPad: Unfound Sounds!

- Developed an interactive music application using Python, PyGame, and NumPy with 29 keyboard mappings, implementing real-time audio generation through event-driven programming and digital signal processing.
- Constructed a state management system for multi-screen navigation, eliminating audio conflicts by developing conditional input processing and screen transition logic across menu, game, and information interfaces.
- Built a real-time audio synthesis engine with continuous playback capabilities, delivering seamless tone generation and visual feedback through digital signal processing and color-coded interface elements for enhanced user interaction.