RAYMOND J. WANG

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EDUCATION

University of California, San Diego   September 2021 – Expected June 2025
B.S. Computer Engineering   3.72 GPA

PROJECTS

MMM — *Android, Java, Node.js, Firebase, Google Cloud*   April 2022 – May 2022
Android App and Node.js Service
- ▪ Documented private REST API endpoints used by UCSD Mobile Order app with Fiddler web debugging proxy.
- ▪ Developed Java Android app using Material Design 3, Google Maps Static API, and Android OS & View APIs.
- ▪ Collected and aggregated data (e.g., hourly wait times) on campus dining services with node-cron and Cloud Firestore.

Extension Builder — *Node.js, Bash, npm*   February 2022
Command Line Build Tool
- ▪ Automated processing & packaging for multi-platform browser extensions. Published to npm using GitHub Actions.
- ▪ Integrated a custom leveled-based logger, version enforcement, fs-extra for file manipulation, and zip utility.

DocsAfterDark — *CSS, JavaScript, HTML*   January 2022 – Present
Browser Extension
- ▪ Implemented absent dark mode with enhanced functionality and customizability for Google Docs.
- ▪ Distributed to over 36,000 weekly users through Chrome, Firefox, Edge, and Opera extension stores.
- ▪ Utilized browser APIs for user preference storage, background scripts, and stylesheet & DOM manipulation.
- ▪ Created extension brand identity, artwork, & homepage. Replaced low-contrast icons and image sprites. Resolved user issues and feedback via email, GitHub Issues, and extension reviews.

Very Cool UNO — *React, Express, Socket.IO, MongoDB, Node.js*   December 2020
Full-Stack Web Application with WebSocket Connectivity
- ▪ Developed UNO game with MERN stack & Socket.IO. Deployed onto Google App Engine with MongoDB on AWS.
- ▪ Engineered authoritative server with custom lobbies & game history. Collaborated with artist on one-off card design.

Personal Website — *HTML, Express, Handlebars, Node.js, JavaScript, CSS*   April 2020 – Present
Custom Domain with Static and Server-Side Rendered Pages
- ▪ Leveraged Firebase Functions for server-side rendering with Handlebars, Firebase Hosting for static pages, and Google Analytics for site performance and user engagement.
- ▪ Showcased music, film, & motion graphics work, personal blogs & articles with experimental design and typography.

EXPERIENCE

UCSD Transportation Services Website Intern, San Diego, CA   December 2022 – Present
Website Intern
- ▪ Managed transportation.ucsd.edu, ensuring accuracy and compliance with university policies. Lead restructuring effort for entire website, researching user experience to enhance the accessibility and design of its 83 content pages.

IEEE @ UCSD Student Organization, San Diego, CA   October 2022 – Present
Webmaster
- ▪ Managed DNS records & TypeScript React website. Created Firebase deployment workflow with GitHub Actions.

San Diego Capture the Flag Competition, San Diego, CA   May 2022
2nd Place (Among UCSD Teams)
- ▪ Focused on web exploitation and OSINT cybersecurity challenges using open-source tools to recover hidden flags.

UCSD Esports Student Organization, San Diego, CA   February 2021 – Present
Creative Officer
- ▪ Produced motion graphics and artwork for social media, sponsor pitch decks, livestreams, and video productions.
- ▪ Adapted and deployed branding guideline document into interactive website written in HTML, JavaScript, and CSS.

SKILLS

Languages   Node.js, JavaScript, TypeScript, Java, C++, C, HTML, CSS, Golang, Python, C#, Shell

Tools & Libraries   amqplib, Android, AWS, Electron, Firebase, Git, Google Cloud, Heroku, JUnit, LaTeX, Linux, MongoDB, Next.js, nginx, npm, Puppeteer, React, React Native, Regex, Vue