Kevin Wang

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EDUCATION

University of Michigan   Ann Arbor, MI
Computer Engineering; Bachelor of Science in Engineering, College of Engineering   *May 2022*
GPA: 3.65/4.00, Dean's List

SKILLS

Technical Skills: C++, C, Java, Python, HTML/CSS, JavaScript, MATLAB, Git, Agile, VBA, Qt, SolidWorks, Altium, Verilog HDL.

AWS Technologies: S3, DynamoDB, CloudWatch, CloudFormation, Lambda, IAM, EC2, Glue, CDK, Sable.

Relevant Coursework: Data Structures & Algorithms, Computer Organization, Computer Vision, Web Systems, Embedded System Design, Logic Design, Compilers, Electronic Circuits, Signals & Systems, Discrete Mathematics, Calculus 3, Differential Equations, Linear Algebra

PROFESSIONAL EXPERIENCE

Amazon   Palo Alto, CA
Software Development Engineer Intern, Search Engine Technologies   *May 2021 - August 2021*
- Leveraged AWS services to create a Republisher that can spin up parallel instances to reach a throughput per second (TPS) of up to 60k and is able to process 1+ billion product identifiers, or ASINs, in a single workflow.
- The Republisher is a software application that aggregates data and makes products searchable on amazon.com by automatically republishing ASINs that are out-of-sync or updating ASINs after large systematic changes.
- Developed in TypeScript, Java, and Python, and used AWS services including DynamoDB, CDK, Glue, EC2, Lambda and S3.

SpaceX   Greater Los Angeles, CA
Software and EMI Avionics Intern   *January 2021 - April 2021*
- Designed, implemented, and tested the full end-to-end production EMC process for in-house pre-compliance testing. Upgraded hardware and software processes for automation of data collection and analysis for all Starlink Product EMC testing.
- Created a software system focused primarily on consumer pre-compliance testing analogous to the F9/Dragon/Starship EMC qualification workflow. Developed primarily in Python.

Gentex Corporation   Zeeland, MI
Software Intern, Electromagnetic Compatibility Intern   *May 2019 - August 2019; May 2020 - August 2020*
- Designed and developed a software system consisting of a C++ backend and Qt frontend for automation of EMC test procedures. Devised a log(n) complexity algorithm to efficiently reach maximum boundaries on tests without straying beyond set error thresholds.
- Simulated electromagnetic performance of 150+ designs to provide recommendations on altering existing designs to achieve best results.

University of Michigan Housing   Ann Arbor, MI
Resident Advisor   *August 2019 - Present*
- Provide personal and academic counseling to 570+ community members in the Residence Halls through career advice and resolutions for personal conflicts, enhancing the first-year experience for incoming students.

PROJECT EXPERIENCE

SpotifyMixer Web Application   spotifymixer.com
Software Developer
- Utilized GatsbyJS, HTML5, CSS, and Firebase to create a web app that automatically generates personalized playlists for you and your friends full of everyone's favorite songs using data from Spotify Web API. SpotifyMixer has 500+ daily users.

Personal Website   kevinjwang.com
Software Developer
- Designed and created a personal webpage using HTML/CSS/React technologies.

Miniature Tether Electrodynamics Experiment (MiTEE) Research   Ann Arbor, MI
Research Assistant
- Conduct research into novel propulsion technology using propellant-less propulsion through electrodynamic tethers for nano-spacecraft.
- Create PCBs using Altium for solar interconnect and antenna matching boards as part of the Electrical Power Systems Research Team.

Aegis Systems Startup   Lisbon, Portugal
CEO and Co-Founder
- Managed a team of five co-founders during a four-week accelerator to build Aegis Systems, an IOT Wearable Tech Start-up.
- Led a technical team to develop an array of sensors to detect five vital signs and analyze this information to accurately determine the health status of the user and alert a central hub of any signs of danger.

Grand Valley State University SolaRescue Project Team   Grand Rapids, MI
Development Team Leader
- Developed a solar-powered surgery system through CAD design work, circuitry design, and solar panel, and charge controller sizing.
- Deployed at the Embangweni Mission Hospital in Malawi, the system has saved hundreds of lives since the summer of 2017.

ACTIVITIES

MPowered Entrepreneurship   Ann Arbor, MI
President, Chief Operating Officer, Trailblaze Director, 1000 Pitches Logistics Lead   *September 2018 - Present*
- Managed a team of 5 executive board members, 20+ core directors, and 80+ talent members with a $100,000 budget; led teams from ideation through execution for 8+ events, marketing, and logistics.
- Strategized with directors on project vision, event logistics, and talent recruitment; oversaw day-to-day operations including sponsorship calls, teaching effective communication and leadership skills, and acting as a liaison with the Center for Entrepreneurship.

MEG Consulting   Ann Arbor, MI
Senior Advisor, Vice President of Operations and Finance, Managing Director   *September 2018 - Present*
- Budgeted $8000+, organized projects, led marketing and budgeting committees, and planned logistics as VP of Operations and Finance.
- Determined research priorities for MCity, the nation's largest autonomous vehicle testing facility, allocating a budget of $11 million.