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| [AlanLee9715@gmail.com](mailto:AlanLee9715@gmail.com)  (617) 633-6341 | | | **Alan Lee** | | | | | | [aleel1597](https://github.com/aleel1597) | | | unnamed [alanlee9715](https://www.linkedin.com/in/alanlee9715) |
| Image result for medium icon [alanlee](https://medium.com/@alanlee_80668) | | | Image result for website icon [alanlee.me](https://alanlee.me/) |
| **Education** | | | | | | | | | | | | |
| **Champaign, IL** | | | **University of Illinois at Urbana–Champaign** | | | | | | | Fall 2015 – Spring 2019 | | |
| Bachelor of Science in Computer Engineering | | | | | | | GPA: 3.3/4.0 | | | | | |
| **Coursework**: Algorithms, Data Structures, Operating Systems, Databases, Applied Machine Learning, GPU Parallel Programming, Computer Architecture, Signal Processing, Probability & Statistics for Computer Science, Startups: Inc/Funding/Contracts/IP. | | | | | | | | | | | | |
| **Employment** | | | | | | | | | | | | |
| **Technical Solutions Specialist** | | | | **IBM** | | | | | Aug 2019 - Present | | | |
| * Undergoing 9-month Summit training program to develop technical consultative client focused skillset on IBM offerings. | | | | | | | | | | | | |
| **Founding Associate/Product Manager - web** | | | | | | **Zyno Solutions** | | June 2012 – Present | | | | |
| * Developed long-term enterprise strategy on product adoption, ecommerce, IT infrastructure, and development processes. * Managed company collection of websites on development, marketing, metrics, reliability, and ecommerce. * Designed and built company websites: [zynosolutions.com](https://zynosolutions.com/), [infutronix.com](https://infutronix.com/), [careeverywhere.com](https://careeverywhere.com/), [infulytics.com](https://infulytics.com/), [zynomed.com](https://www.zynomed.com/), [nimbuspainpro.com](https://www.nimbuspainpro.com/), [nimbusflex.com](https://nimbusflex.com/), [nimbusems.com](https://www.nimbusems.com/). * Delivered training to nurses and prospective customers at tradeshows and conventions on company infusion solutions. * Developed Java GUI automated infusion device testing tools and refactored embedded C device firmware for compatibility. | | | | | | | | | | | | |
| **Product Manager Co-Op** | | | | | **HCSC: Blue Cross Blue Shield of Illinois** | | | | Jan 2018 – Aug 2018 | | | |
| * Director of shark tank challenge. Managed 8 cross functional teams of 6 interns/team through product ideation, development, and launch. 1st place idea put into enterprise product portfolio, 2nd place idea put into immediate pilot. * Developed in-network provider finder full stack web application pilot with JavaScript/HTML/CSS, Java, and Spring framework. * Designed data dashboards with PowerBI, Tableau, Python scripting for visualizing internal employee data. * Mobilized and led clinical strategy team with CMO in integration of novel non-opioid pain treatment into coverage policy. * Implemented sensor network chat bot prototype with Node.JS on RaspberryPI using IBM IOT cloud platform. | | | | | | | | | | | | |
| **Software Engineer Co-Op** | | | SIEMENS Healthineers | | | | | | May 2017 – Dec 2017 | | | |
| * Redesigned CT scanner boot up firmware to migrate from PowerPC to x86 architecture. Implemented I2C command transmission to FPGA array and TCP protocol to command terminal on boot up in C. * Implemented user set movement calibration features on CT machines in C for movement subsystems and C++ unit tests. * Built C# .NET windows GUI CT scanner interface tool for testing and machine calibration. Added command handshake protocol, XML command parsing, delimiter packet functionality, and hardware compatibility check features. * Developed traceability matrix tool in C# .NET to search and export matches on design ID's with relevant files to into excel. | | | | | | | | | | | | |
| **User Experience Intern** | | | **Verizon Labs** | | | | | | April 2015 **–** June 2015 | | | |
| * Collected user feedback for software UI on mobile devices for usability metrics through primary research onsite interviews. * Created data visualization dashboards and performed survey data acquisition of A/B testing on usability for software products. * Developed product testing strategy for future software design and user research of new prototypes. | | | | | | | | | | | | |
| **Projects** | | | | | | | | | | | | |
| **Stock Screener** (2019) | | Stock search engine for key technical attributes: MA, EMA, RSI. | | | | | | | | | Python, Yahoo API’s | |
| **Pressure Sensing Shoe** (2019) | | Bluetooth dynamic pressure sensing insole with android app. | | | | | | | | | C++, Java, Android | |
| **Linux OS** (2018) | | Created VM capable Linux OS with round robin multithreading. | | | | | | | | | x86, C | |
| **AvalonAAV Travel Website** (2018) | | Full stack travel website with database functionality. | | | | | | | | | PHP, HTML/CSS, SQL | |
| **Brick Breaker** (2017) | | Imitation of Brick Breaker game on Altera DE2-115 FPGA. | | | | | | | | | System Verilog, C, Python | |
| **Relevant Skills and Knowledge** | | | | | | | | | | | | |
| **Product** | Agile/SCRUM, Test Driven Development, CI/CD, Design Thinking | | | | | | | | | | | |
| **Proficient Languages** | Python, Java, C#, C++, C, SQL, x86 | | | | | | | | | | | |
| **Familiar Languages** | PHP, JavaScript, HTML/CSS, CUDA, System Verilog, R, XML, Ruby | | | | | | | | | | | |
| **Technology Tools** | Git, GDB, JIRA, Maven, Kubernetes, Docker, PowerBI, Tableau, AWS, Azure, Google Cloud, IBM Cloud | | | | | | | | | | | |
| **Frameworks** | Spring, .NET, Node.JS, TensorFlow, Scikit-learn, Rails, Django, Flask, JAM Stack, REST | | | | | | | | | | | |
| **Areas of Expertise** | Web Development, Embedded Devices, IoT, Healthcare, Medical Devices, Equity Trading | | | | | | | | | | | |