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| [AlanLee9715@gmail.com](mailto:AlanLee9715@gmail.com)  (617) 633-6341 | | **Alan Lee** | | | | | | | | | | unnamed LinkedIn: [alanlee9715](https://www.linkedin.com/in/alanlee9715) |
| GitHub: [aleel1597](https://github.com/aleel1597) |
| Internet[aleel1597.github.io](https://aleel1597.github.io/) |
| **Education** | | | | | | | | | | | | |
| **University of Illinois at Urbana–Champaign** | | | | | | | | Fall 2015 – Spring 2019 | | | | |
| * **Major**: Bachelor of Science in Computer Engineering (GPA: 3.2/4.0) * **Coursework**: Algorithms, Data Structures, Operating Systems, Databases, Applied Machine Learning, GPU Parallel Programming, Computer Architecture, Probability & Statistics for Computer Science, Signal Processing | | | | | | | | | | | | |
| **Employment** | | | | | | | | | | | | |
| **Software Engineer** | | | | | **IBM** | | | | |  | | Aug 2019 - Present |
| * Implemented sensor network chatbot prototype with Node.JS on RaspberryPI using IBM IOT cloud platform. * Designed CICD pipelines for Java Spring web applications on Kubernetes, Docker for rapid cloud deployment. * Refactored Node.JS, MongoDB web traffic analytics app to convert architecture to containerized microservices. | | | | | | | | | | | | |
| **Software Engineer | Founding Member** | | | | | | **Zyno Medical** | | | | June 2012 – Present | | |
| * Developed and Managed collection of websites on design, development, performance metrics, and user growth: [zynomed.com](https://www.zynomed.com/), [zynosolutions.com](https://zynosolutions.com/), [infutronix.com](https://infutronix.com/), [careeverywhere.com](https://careeverywhere.com/), [nimbuspainpro.com](https://www.nimbuspainpro.com/), [nimbusflex.com](https://nimbusflex.com/). * Architected and implemented serverless ecommerce web app with JavaScript, Stripe, and Foxy.io API’s * Built Java GUI automated device testing suite and refactored C embedded device firmware compatibility. | | | | | | | | | | | | |
| **Software Engineer Co-Op** | | | | **Blue Cross Blue Shield: Illinois** | | | | | | | Jan 2018 – Aug 2018 | |
| * Developed in-network provider finder web application with Java, Spring framework and JavaScript/HTML/CSS. * Designed data dashboards with PowerBI, Tableau, and Python scripts for visualizing internal employee data. * Director of shark tank challenge. Managed 50 direct reports in 6 teams through product development, and launch. 1st place winner put into enterprise product portfolio, 2nd place winner put into immediate pilot. | | | | | | | | | | | | |
| **Software Engineer Co-Op** | | | SIEMENS Healthineers | | | | | | | |  | May 2017 – Dec 2017 | |
| * Redesigned CT scanner boot up server to migrate to x86 architecture with TCP and I2C functionality in terminal. * Implemented movement calibration features on CT machines in C for movement subsystems and C++ test suite. * Built C# .NET windows GUI CT scanner interface tool for testing and machine calibration. * Developed requirement traceability matrix tool in C# .NET to search and export file matches indexed on design ID’s | | | | | | | | | | | | |
| **User Experience Intern** | | | | | | | **Verizon** | |  | | | April 2015 **–** June 2015 |
| * Created data visualization dashboards and designed data pipelines for A/B testing on usability metrics for website. * Collected and massaged user feedback data on software UI of mobile devices for usability metrics. * Developed product testing strategy for future software design and user research of new prototypes. | | | | | | | | | | | | |
| **Projects** | | | | | | | | | | | | |
| **Stock Trading Bot** (2020) | | * Automated trading bot on technical indicators with text notifications and live data streams. | | | | | | | | | | * Python, Google Cloud, Docker, Twilio, Alpaca |
| **Strategy Backtester** (2020) | | * Trading strategy historical backtesting platform | | | | | | | | | | * Python, Backtrader |
| **Pressure Sensing Shoe** (2019) | | * Bluetooth pressure sensing insole custom PCB and android app with live pressure data streams. | | | | | | | | | | * C++, Java, Android, Arduino, Eagle PCB CAD |
| **Linux OS** (2018) | | * Created Linux OS from scratch in a team of 4 developers with multithreading capability | | | | | | | | | | * x86, C |
| [**Travel Website**](https://youtu.be/BPbLNx-46dg)(2018) | | * Full stack travel website. | | | | | | | | | | * PHP, HTML/CSS, MySQL |
| **Relevant Skills and Knowledge** | | | | | | | | | | | | |
| **Programming Languages** | Python, Java, C#, C++, C, SQL, JavaScript, x86, PHP, Ruby, HTML, CSS, XML, System Verilog | | | | | | | | | | | |
| **Technologies** | AWS, Azure, GCP, IBM Cloud, Git, Docker, Kubernetes, Jenkins, Tekton, Argo CD, Maven PowerBI, Tableau, JIRA, TensorFlow, CUDA, Spring, Django, .NET | | | | | | | | | | | |