PIERCE FARAONE

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Education

University of Virginia	**Charlottesville, VA**
B.S. Computer Engineering	*2015 - 2019*

- Thesis: How have innovations in health-monitoring technology affected the relationship between doctors, insurance companies, policyholders, and the public?
- GRE: 333/340

Skills & Interests

- **Languages:** Python, JavaScript, Java, C++, SQL, HTML/CSS
- **Databases:** MongoDB, MySQL, Redis
- **Frameworks:** Express.js, Serverless Framework, React, Flask
- **Technologies:** AWS, GCP (Firebase), Docker, Node.js, Git, AWS Lambda, Linux
- **Certifications:** AWS Certified Solutions Architect – Associate (2019)
- **Interests:** Meditation, Neuroscience, Tennis, Cryptocurrencies

Professional Experience

Accenture Innovation Hub	**Singapore**
*Software Developer	Accenture*	*Oct. 2019- Present*

- Built, architected, and deployed a robust serverless REST API service and serverless backend infrastructure for an internal web app using Node, DocumentDB, CloudFormation, Lambda, and API Gateway.
- Designed and built a multi-lingual, IIoT interfacing virtual assistant application using Node, Python, WebSockets, GCP, and Dialogflow. It integrated with an "intelligent operations center" dashboard, showing how contextual voice interactions can augment predictive analytics and IoT interconnectivity to improve standardization, safety, and efficiency.
- Implemented and automated a video analytics/facial identification system using OpenCV-Python and AWS Compute services
- Convincing clients of the value of many digital technologies by consistently applying design thinking and agile methods to compose compelling ideas, use-cases, and prototypes at multiple Innovation Centre workshops

American Chamber of Commerce	**Singapore**
Business Development Intern	*Jun. – Jul. 2018*

- Supported membership recruitment efforts for over 600 members, particularly in client profile building
- Assisted in membership data analysis and engagement tracking. Used data analysis skills to identify critical trends in engagement for the top ten members by industry.

Coca-Cola Singapore Beverages	**Singapore**
Information Systems Intern	*Jun. – Jul. 2016*

- Automated data transfer from an Excel spreadsheet to a daily report using Visual Basic skills.
- Constructed several digital dashboard templates as part of the teams' effort to implement more useful business intelligence in the Singapore branch.

Projects

Electrical & Computer Engineering Capstone	**Charlottesville, VA**
Piezoelectric Energy Harvester and Sensor	*Aug. – Dec. 2018*

- Developed a vibrational energy harvester solution to improve the scalability, performance, and lifespan of certain Internet of Things (IoT) applications such as wireless sensor networks and systems.
- Over sixteen weeks, designed, tested, and prototyped a comprehensive piezoelectric vibration energy-harvesting vibration sensor that could be deployed in a weak vibration environment such as AC units and cars.
- The sensor-energy harvester could scavenge enough vibration energy to drive an ultra-low-power microcontroller and other data acquisition components
- Tools: Embedded C, LabVIEW, MSP430 microcontroller, myRIO FPGA, PCB, NI Ultiboard