

# AURIN CHAKRAVARTY

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Holds Active Secret Clearance



## EDUCATION

**Johns Hopkins University, Baltimore, MD**

M.S., Security Informatics; GPA: 3.70 (May 2018)

B.S., Electrical & Computer Engineering, Minor in Entrepreneurship & Management (May 2017)

- Relevant Coursework: Data Structures, Data Mining, Cloud Computing, Security Analytics, Practical Cryptographic Systems, Computer Architecture



## EXPERIENCE

**Garmin International | Software Engineering Intern | Olathe, KS | May – August 2017**

- Developed commercial software in C++ for wearable devices to implement media streaming via Bluetooth
- Designed audio upsampling algorithms for numerous file formats to adjust signals to sampling-rates at which the devices can play media and audio prompts optimally
- Reduced memory usage in the media home menu and fixed 20+ bugs flagged by quality testing programs
- Operated in an Agile environment, using JIRA for tickets and Gerrit for version control & code reviews

**oopSee | Software Engineering Intern | Los Gatos, CA | November 2016 – February 2017**

- Added core functionality to a hands-free platform that allows users to gamify their physical training experience through voice interface and movement readings from wearable devices
- Established back-end database functionality for gathering motion measurements using MySQL
- Developed REST API services using the Jersey web framework, Tomcat servers, Maven, and Java

**Oracle Corporation | Software Engineering Intern | Bedford, MA | May – August 2016**

- Independently designed a data visualization tool of patient clinical trials for the Health Sciences division
- Developed a parser in Java that aggregated and filtered drug & symptom data on 700+ patients
- Utilized D3.js to create a modernized rendering of patient data with interactive analytics
- Converted raw data into interpretable JSON format; used Oracle for querying patient data

**FitMango | CTO & Co-Founder | Baltimore, MD | August 2013 – February 2015**

- Cofounded an accelerator-backed startup that promotes an affordable, results-driven fitness program with state-certified trainers using data analytics
- Part of the AccelerateBaltimore incubator cohort, receiving \$25,000 in seed funding
- Ran a successful pilot test of 100+ users and partnered with local Baltimore gyms to expand the platform
- Designed frontend of the website ([www.fitmango.com](http://www.fitmango.com)) with the development team using HTML/CSS



## PROJECTS

- **Code Reuse Estimation:** Worked in collaboration with the Applied Physics Lab to create a tool in Python that analyzes common symbols between binaries in order to output a similarity index
- **Position Triangulation:** Conducted research under Dr. Seth Nielson of JHU to use logs of router beaconing in order to triangulate a person's physical position within a building



## SKILLS

- **Languages:** Java, C++, C, Python, Go
- **Databases:** MySQL, Oracle
- **Software Tools:** UNIX, Git, GitHub, Bitbucket, Gerrit, JIRA, Maven, Tomcat, Jersey, Jenkins
- **Frameworks:** D3.js, Node.js