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)

EXPERIENCE

Amazon | Software Development Engineer | Seattle, WA **|** September 2018 – Present

- Delivered a search engine that returns invoice PDFs based on queried invoice numbers; used Java and React for core functionality and implemented an IAM system to control access
- Worked on a new service launch for India by addressing 20+ issues in the system and collaborating with business and tech teams in order to meet established deadlines
- Migrated a legacy business ruleset engine with a limited capacity of 300K business rules into a more efficient platform that can scale to handle 10X as many business rules

Capital One | Software Engineer | Richmond, VA **|** July 2018 – September 2018

- Used the Java Spring framework to optimize small business card credit line decisioning systems
- Implemented AWS Lambda functions to detect problematic account information stored in PostgreSQL databases and notify underwriters through Slack notifications
- Deployed new features and bug fixes through production-level Jenkins pipelines and monitored health of EC2 instances through CloudWatch alerts

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

- Developed commercial software in C++ for wearable devices to implement media streaming via Bluetooth
- Designed audio up-sampling 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

Oracle | 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

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
- Software Tools: Git, AWS, JIRA, UNIX, Jenkins, Maven, Tomcat, Jersey
- Databases: PostgreSQL, MySQL, Oracle
- Frameworks: Spring, D3.js, Angular.js