Anurag Baddam

813-523-1555 | baddamanu@gmail.com

EDUCATION

UNIVERSITY OF CALIFORNIA, BERKELEY

BS in Electrical Engineering and Computer Science (EECS)
Minor in Statistics

Graduated May 2018 | Berkeley, CA

C. LEON KING HIGH SCHOOL

International Baccalaureate

Graduated May 2014 | Tampa, FL

LINKS

github.com/arb625
linkedin.com/in/anuragbaddam
https://arb625.github.io/

COURSEWORK

Database Systems (CS186)
Machine Learning (CS189)
Artificial Intelligence (CS188)
Algorithms (CS170)
Computer Security (CS161)
Operating Systems (CS162)
Data Structures (CS61B)
Computer Architecture (CS61C)
Probability (Stat 134)
Stochastic Processes (Stat 150)
Linear Modeling (Stat 151A)
Time Series (Stat 153)

SKILLS

PROGRAMMING

Python • Java • C • SQL • R •
AMPL • UNIX • LaTeX

TECHNOLOGIES

Apache Spark • scikit-learn • Tensorflow •
Keras • PyCrypto • React • Node.js •
Express.js • Bash • Git

ON CAMPUS

Institute of Electrical and Electronics Engineers (Industry Relations Officer) •
Code India (Founding Member) •
South Indian Society (Finance Director)

INTERESTS

Software Development • Data Science •
Machine Learning • Computer Security •
Entrepreneurship • Product Management

EXPERIENCE

SALESFORCE | Software Engineer

Secure by Default team
July 2018 - Present | San Francisco, CA

- Strengthening entity access control by enforcing CRUD access checks on all Core entities. Implemented periodic entity usage metrics logging to obtain data. Working on implementing K-means clustering to identify default permission associations for various Salesforce user types
- Created a Java Agent that used dynamic byte-rewriting to identify over 50 new XSS vulnerabilities in the Salesforce core output stream
- Discovered a host of privilege escalation vulnerabilities caused by negative page-level access checks providing access to unintended users. Used Boolean algebra to refactor access checks and filed bugs against over 30 teams
- Fixed a Denial-of-Service vulnerability that exploited a slow parser for large numeric input in the application UI, cutting the latency by a factor of 20
- Became a certified Scrum Master, oversee all Agile practices for the team

SALESFORCE | Software Engineering Intern

Product Defense and DDOS teams
Summer 2017 | San Francisco, CA

- Added cross-origin referrer URL restrictions on all Salesforce Core domains
- Added firewall rules for repeated IP addresses and high CPU usage that decreased the average amount of bad traffic allowed by Core by a factor of 10

NOKIA HERE | Software Engineering Intern

Capture Systems and Technical Customer Support teams
Summer 2015, Summer 2016 | Berkeley, CA

- Developed a data capture and rendering product using primarily React, Node, and Redis, leading to more-informed decisions regarding future data collection
- Resolved customer issues regarding Here's Javascript, Android, and REST APIs
- Introduced over 20 potential customers to the capabilities of the Here APIs

UC BERKELEY- CS 186 (DATABASES) | Head Undergraduate Student Instructor

August 2016 - May 2018 | Berkeley, CA

- Managed a team of 10 TAs to run course logistics efficiently
- Led and taught 60 students in weekly discussion sections and office hours
- Helped write a Java project in which students built a database implementing a functional version of SQL, query optimization, and concurrency control
- Developed worksheets and homework, that over 500 students studied weekly, with topics including out-of-core algorithms and distributed databases

PROJECTS

QUORA QUESTION PAIRS CLASSIFIER | Personal Project

Summer 2017

- Developed a classifier that determines if two questions are duplicates
- Uses a deep neural network model trained on labeled Quora question pairs
- Achieved a test accuracy of over 80%
- Stack includes Scikit-learn, Tensorflow, and Keras