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
Machine Learning
Artificial Intelligence
Algorithms
Computer Security
Operating Systems
Data Structures
Computer Architecture
Stochastic Processes
Linear Modeling
Time Series
Probability

SKILLS

PROGRAMMING

Python • Java • HTML/JS/CSS • C • SQL • R • Bash • Git • LaTeX

TECHNOLOGIES

Django • Flask • React • Node.js • Ruby on Rails • Docker • Travis CI

INTERESTS

Entrepreneurship
Software Development
Computer Security
Data Science
Machine Learning

WORK EXPERIENCE

SALESFORCE | Software Engineer

Secure by Default and Access Control Security team

July 2018 - Present | San Francisco, CA

- **Entity Access Vulnerability Scanner**: Implemented a scanning tool in Python that parses Salesforce entities' access checks and reports privilege escalation vulnerabilities. Set up CI/CD to automatically package scanning tool into a binary executable. Integrated tool into the application build validation process to block changes with security regressions. Helped develop Java utility to automatically file bugs against over 100 teams owning vulnerable entities using Salesforce API.
- **Universal CRUD**: Implemented K-means clustering in Java to identify correct permission associations for various Salesforce features.
- **Output Stream Scanner**: Created a Java Agent that used dynamic byte-rewriting to identify over 50 XSS vulnerabilities.
- Fixed a **Denial-of-Service vulnerability** that exploited a slow parser for large numeric input in the application UI, cutting latency by 20x.
- 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 (Java).
- Added rules for repeated IP addresses and high CPU usage in DDOS-prevention rules engine, decreasing false negative rate by a factor of 2.

NOKIA HERE | Software Engineering Intern

Capture Systems and Technical Customer Support teams

Summer 2015, Summer 2016 | Berkeley, CA

- Developed a traffic data rendering product (React, Node.js, SQL) that informed decisions about future routes to capture.
- Resolved customer issues regarding Here's Javascript, Android, and REST APIs.

UC BERKELEY- CS 186 (DATABASES) | Head Teaching Assistant

August 2016 - May 2018 | Berkeley, CA

- Managed a team of 10 TAs to run course logistics efficiently.
- For 4 semesters, taught 60 students in weekly discussion sections and office hours.
- Developed worksheets and homework, that over 500 students studied weekly, with topics including out-of-core algorithms and distributed databases.
- Co-wrote a Java project in which students had to implement a functional variant of SQL, query optimization, and concurrency control.

PROJECTS

RETURNFORCE 1st Place Salesforce All Technology Hackday | Python

- Wrote a linear program that solves for the optimal assignment of employee seats to shifts/days on which they should attend the office to maximize social distancing as employees return to the office from the COVID-19 lockdown
- Used in **Salesforce Work.com** to help companies return their employees to offices

HONEST-COMMERCE Most Creative at Salesforce Core Engineering Hackday | HTML/Javascript, Flask, Solidity

- Implemented an E-commerce platform that prevents hoarding and scalping of high-demand merchandise using **Smart Contracts on the Blockchain ledger**.