

# HARDIK GOYAL

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## EDUCATION

### University of Southern California

*B.S., M.S. in Computer Engineering and Computer Science*

*Double Minor in Computer and Digital Forensics, Entrepreneurship*

Los Angeles, CA

Expected December 2019

GPA – 3.58/4.0

## WORK EXPERIENCE

### Google

*Software Engineering Intern*

Mountain View, CA

June 2019 – Present

- Implemented LLVM fuzzer support for Avahi daemon running on ChromeOS to find and report inputs, from incoming MDNS packets, that could make the daemon vulnerable
- Analyzed Metrics Daemon on ChromeOS to sandbox its environment, which now reduces a malicious attacker's access to unwanted components on the system

### Pocket Gems, Inc.

*Software Engineering Intern*

San Francisco, CA

June 2018 – August 2018

- Integrated new post animations features into Episode app using Objective-C which has been rolled out to 10% of users as an A/B test, and since the rollout has shown an increase in time spent on the social feed.
- Analyzed user activity on Episode Social Feed and redesigned the existing algorithm to focus on content popularity which recommends new users to follow which helped create meaningful in app experiences

### LaunchByte.io

*Software Development Intern*

Boston, MA

May 2017 – August 2017

- Implemented and supported new features on three client websites and developed web applications with ReactJS to support two minimum viable products of new startups
- Designed wireframes, technical designs, and flowcharts for 5 startup clients and incorporated client feedback to meet the requirements of their app, while also effectively communicating the product to the engineering team

### University of Southern California

*Undergraduate Teaching Assistant, Data Structures and Object-Oriented Programming*

Los Angeles, CA

January 2017 - Present

- Led lab sessions and held office hours, to guide a 200-student class in learn and apply key data structures

## PROFESSIONAL SKILLS

### Programming Languages

C++, C, Java, Python, Swift, Objective-C

### Web Development

HTML, CSS, JavaScript, React.js, Node.js, PHP

### Database Systems

SQL, GAE Datastore, AWS Dynamo DB, AWS Cognito Services

### Forensic Software

EnCase 6, EnCase 8, Forensic Explorer 3, Blacklight r20171, Wireshark

## PROJECTS

### Forensic Investigation, ITP475: Advanced Windows Forensics

January 2018 – May 2018

- Completed full investigations and presented a report for 5 forensic cases, using Forensic Explorer and EnCase v8
- Testified in front of a judge at the LAX CourtHouse for the course's final case report's findings

### Menu@USC, Alexa Skill

June 2017 – August 2017

- Used Python and AWS Lambda to develop Menu@USC to tell the user, via Alexa, the current menu for the requested meal at dining halls at USC

### Smart Guard, IoT Smart Door

April 2017 – May 2017

- Used Google's speech recognition API and text to speech API to create a voice activated Smart Door which opens after it hears the correct speech response to its questions

## LEADERSHIP AND INVOLVEMENT

### Director, Marshall International Case Competition, 2019

Nov 2018 – Feb 2019

- Led a team of 20 students to organize a 4-day competition for 100 participants from 20 international schools

### VP of Fellowship, Marshall Business Case Team

Aug 2018 – May 2019

- Organized team bonding events for case team and encouraged information sharing to help new members learn

### Director, Splash SC

Jan 2016 – Dec 2018

- Oversaw the operations of a team of eight people to organize semi-annual Splash, an event aimed at hosting classes for under-privileged kids from around USC, for 200+ high school students