Professional Summary

- Bachelor of Computer Science & Engineering as Major with Minor in Management Analytics & Decision-Making as Minor (4-year degree) completed in 3 Years with Highest Honors from University of California.
- Full Stack Developer with expertise in latest-in-technology Open Source software's and tools.
- Gained decent expertise in various Cloud Computing (AWS and Azure), Cybersecurity and mobile apps (Apple iOS/Google Android) development and delivery with release management as part of CI/CD (Continuous Improvement and Continuous Delivery) Git pipeline.
- Played a key role in designing, developing through delivering various projects in Agile project management methodology.
- Proven Team Player and Team Lead with Team Management in various cross-team individuals.
- Delivered various Sustainability projects for Education industry via collaboration and partnership with internal and external clients.
- Participated in various Global Cyber hackathon competitions and won various prizes for under 100 positions.
- Proven ability to accept challenges and deliver results.
- Implemented various projects for in-house usage at University of California and for its alliances.
- Formulated and Led various local STEM conferences for the community. Handled logistic as well as delivered technical workshops
- As Treasurer of "The Q Project" at University of California, secured various budget approvals totaling over $30K via effective collaboration and leadership within UC Management and external UC partners. That led my "Treasurer" role for entire duration of my college tenure ship.
- Leadership qualities, effective communicator, quick learner with proven ability to accept and deliver challenges foster delivering results to projects sponsors.

Key Business Verticals Expertise

- Education,
- Cyber Security,
- Blockchain,
- Sports, &
- Nonprofit

Education

Bachelor's degree at University of California, Merced
- Major: Computer Science and Engineering GPA: 4.0
- Minor: Management Analytics and Decision Making

Professional GitHub Repositories / Public Profiles

- ✓ GitHub: https://github.com/Apro123
- ✓ LinkedIn: https://www.linkedin.com/in/armaan-kapoor-a7ab24143/

- ✓ YouTube Channel: https://bit.ly/QProjectYoutube
- ✓ College's IT security campaigns website: https://it.ucmerced.edu/security-campaigns
- ✓ RSAC Blog Article: https://www.rsaconference.com/library/blog/cyber-learning-in-todays-world
- ✓ Knackthon (Cyber Hack) Live Stream: https://asterisk.events/site/knackathon/live-stream
- ✓ Github: https://github.com/kerrande/Zoo-Project
- ✓ Mobile Apps:
  - ➢ Historic Calculator: https://play.google.com/store/apps/details?id=com.apro.calculator
  - ➢ Serviceator: https://play.google.com/store/apps/details?id=com.apro.serviceator

Technical Skills

Project Management Methodologies	SCRUM, Agile
Databases	SQL Server, MySQL, SQLite, Postgres
Programming Languages/Tools	Git, various shell languages such as Bash, Korn, Zsh, Node.js, Angular, HTML5, CSS, JavaScript, Python 2/3+, Java, C++, nesC, C#, Markdown, XML, JSON
Cloud Computing/Solution Architecture	Cloudflare Serverless Workers, CI/CD tools, Linux Server Administration, Hashi Terraform, and,
	AWS Infrastructure Solutions: Lambda, Cognito, EC2, Lightsail, Cloudfront, API Gatwway
	Azure Infrastructure Solution: Azure SQL Database, Azure Cloud tools
Cybersecurity Concepts/Tools	Web Exploitation, Enumeration, Basic Reverse Engineering, Basic Cryptography Stenography, Basic Forensics, Network Analysis, Wireshark, stegsolve, steghide, diit, john, hashcat
Soft Office Skills	Professional Email Communication, Public Speaker, Microsoft Office Products (Word, Excel, PowerPoint)

Professional Recognition

- Frances M. Benton Scholarship
- Various Hackathon Placements + ID Tech Scholarship
- Held and awarded for very effective delivery of Treasurer role of UC Merced Cyber Security Division for over 2 years

Graduate Project

University of California, Networking of Embedded Systems   *Aug 2020 – Dec 2020*
LinkND – Solo Developer
- Excelled at similar undergraduate course and was offered to take higher level graduate course.
- Built a web application dashboard that monitored link quality between various telob motes.
- Designed to be scalable and capture log packets into a wirelessly mounted filer. This was done using Linux server administration skills.

- Prototyped, designed, and developed a client and server-side application using python scripts, Linux commands, python microservice framework Flask with data streams.
- Skills: python, Linux, CI/CD

Professional Experience

University of California, Department of Sustainability   *Mar 2020 – Till Date*
Sustainability Application (Software Engineering Internship)
- Created and Maintained a Sustainability Map Application using Angular under the Ionic Framework.
- Worked with various non-technical individuals to bring this progressive web application to fruition.
- Assisted Leadership in developing a roadmap for the Application.
- Designed custom and personal UI/UX experience.
- Implemented a Solutions Architecture on the University's Cloud Service.
- Skills: Excel, Management, Nontechnical Communication, CI/CD, Linux, Angular, Ionic, Capacitor, Cordova, Mobile Application, Web Application, PWA, JavaScript, Prototyping, Design, UI/UX

Open Water Accelerator – Anytime Game   *Jul 2020 – Aug 2020*
Software Engineering Internship
- Created a Full-Stack Application using React and Django.
- Worked with various non-technical individuals to bring this web application to fruition.
- Lead the Project's Backend infrastructure in growing a database schema as well as the Django application.
- Assisted Leadership in developing a roadmap for the Application.
- Implemented a Solutions Architecture on AWS Infrastructure.
- Skills: Excel, management, nontechnical/technical communication, CI/CD, Django, python, AWS Cloud (Lightsail)

University of California, Cyber Security Division
Cyber Security Division Lead and Treasurer (Q Project)   **Jan 2020 – Till Date**
- Led a team to deliver cyber security workshops to a global audience of non-technical people every week.
- Marketed Cyber Campaign to various social media outlets.
- Persuaded college administration to officialize as a security campaign on IT's website and receive funding from Vice Chancellor.
- Implemented a wide range of marketing tools as well as cyber tools in order to explain important cyber topics relating to cyber awareness and general cyber security.
- Published a blog article on world-renowned RSAC about cyber learning in today's world.
- Skills: Management, Microsoft Products, Nontechnical/Technical communication, various cyber tools (i.e. hashcat, john, outguess), various programming languages (i.e. JavaScript, python)
- Artifacts of ongoing engagement:
  - **YouTube Channel**: https://bit.ly/QProjectYoutube
  - **College's IT security campaigns website**: https://it.ucmerced.edu/security-campaigns
  - **RSAC Blog Article**: https://www.rsaconference.com/library/blog/cyber-learning-in-todays-world

Cisco Certified Network Associate Lab – Project Lead/Developer   **Mar 2021 – Till Date**

- This is ongoing engagement with University of California.
- First CCNA Lab at UC Merced.
- Brought in funding from Student Union after preparing a presentation of benefits of the lab.
- Skills: Networking, Management

Cisco box application – Project Lead/Developer   **Jan 2021 – Till Date**

- This is ongoing engagement with University of California.
- Proposed an AWS Solution Architecture.
- Led a team of students to design, prototype, and develop a full-scale full-stack application and utilize the full functionality of the AWS cloud.
- Skills: Ionic, Angular, Capacitor, Management, Python, Linux, AWS Cloud (Cognito, Lambda, EC2)

3D Printing Fair/Workshop Series - Project Lead/Developer   **Aug 2019 – Till Date**

- Led a team to create a 3d Printing fair that would explain usage of 3d printers and display.
- Consequently, created and led a team with both old and new members to deliver 3d Printing workshops on different 3d printing topics to a global audience of non-technical people every week.
- Properly set up meetings and to improve on the 3d printing workshops and sought funding from Student Union for projects.
- Skills: Management, 3d printer Manufacturing

Resource Application - Project Lead/Developer   **Aug 2019 – Till Date**

- Client is University inter-department as Department of Sustainability.
- Led a team to deliver prototypes, meetings, and working versions of the application to clients.
- Discussed needs of application with clients.
- Properly set up meetings and non-technical discussions with clients to improve on the desired application's design.
- Developed an accurate working prototype to the client, who commended our persistence to the project.
- Proposed on a solution architecture set in the Azure Cloud that leverages limited assets to formulate a structure that would maximize application usage and end-user usability.
- Skills: CI/CD, Management, Azure Cloud, Xamarin (Forms), Mobile Application, Web Application, PWA, Prototyping, Design, UI/UX, Node.JS

Day in Technology #1 & Day in Technology #2   **Aug 2019 – Feb 2020**

- **Delivered Technology workshops with local Nonprofit partnership: https://techequation.org/**
- Led a team of students as well as volunteers to host workshops on various topics such as Cyber, Drones, 3d Printing, etc. to K-12 students to raise exposure to STEM.
- Maintained industry level partnerships with local nonprofit and a Muslim organization to deliver the conference.
- Properly marketed large conference to various social media outlets.
- Skills: Cyber, Management, Nontechnical communication, Public Speaking

Virtual Academies for High Schools Students - Project Lead/Developer   **Jun 2020 – Aug 2020**

- Delivered this workshop for **University of California Center for Educational Partnership (CEP).**
- Led a team of students as well as volunteers to host virtual academies in three main disciplines: LORA, Cyber, Robotics.
- Implemented SCRUM and AGILE practices using a GHANT Chart to track progress of tasks assigned to team members.
- Grew a healthy working relationship with CEP to deliver a summer virtual academy to students in partnered High Schools.
- Maintained an industry level partnership with a UC Merced organization afterwards.
- Skills: Management, Cyber, Nontechnical communication, Public Speaking

LORA Network - Project Lead/Developer   **Jun 2020 – Dec 2020**

- Established a LORA network of sensors as well as gateways across the Central Valley
- Skills: Management, LORA, Nontechnical/Technical Speaking

Z-Hackathon & Think-Care-Act Initiative Group   *Sep 2020 – Dec 2020*
Diaritaur Mobile Application: Become Your Better Self – Solo Developer

- Developed and launched a full-scale mobile application for the purposes of implementing a Think-Care-Act exercise to improve mental health of special needs users mainly targeted for schools and underdeveloped organizations.
- Established application as top app in the Think-Care-Act category winning commendations and a future possible contract.
- Worked with Client afterwards to discuss budget to deliver application onto a production stage to meet with client's needs.
- Skills: Nontechnical/Technical Speaking, Public Speaking, Ionic, Angular, Capacitor

Knackthon 2021   *Mar 2021 – May 2021*
Job Application Dashboard - Project Lead/Developer

- Managed a team of students from across the nation across different time zones to deliver a product in the middle of the week.
- Marketed end product to panel of judges. Commended by judges for high stance of Professionalism.
- Improvised solutions on the spot when problems arose between the team.
- Skills: Nontechnical/Technical Speaking, Public Speaking, JavaScript HTML
- **Live Stream: https://asterisk.events/site/knackathon/live-stream**

For Self and Open Source Community   *Jun 2019 – Dec 2019*
Historic Calculator & Serviceator - Hybrid Application Open Source Developer

- Contributed to the opensource community by creating two projects using open source technologies such as Ionic and Angular.
- Designed, prototyped, developed end-user applications and published onto the google play store.
- Learned a new framework (ionic/angular) within a week to create following application from scratch.
- Over 500 downloads on the play store maintaining a 4.38-star rating for Historic Calculator.
- Skills: Mobile Development, Ionic, Angular, Cordova, Capacitor, Mobile App Management, Android App

- **Historic Calculator: https://play.google.com/store/apps/details?id=com.apro.calculator**
- **Serviceator: https://play.google.com/store/apps/details?id=com.apro.serviceator**

Merced ApplegatePark Zoo   *Aug 2019 – Dec 2019*
Dynamic Zoo Application – Project Developer
- Maintained a working relationship with the Merced zoo.
- Visited site and drew up data and documentation on different components of the zoo.
- Properly implemented client needs into web application delivering an overall effective structure using the python microservices Framework.
- Set deadlines and marketed end application to clients.
- Skills: Nontechnical/Technical Communication, Public Speaking, Management, Flask, Python, HTML, CSS, JavaScript
- **Github: https://github.com/kerrande/Zoo-Project**