

SOFTWARE ENGINEERING @ UCI



DESIGN

Zahra came to UCI undecided on her major but curious about a career in computing. Never having programmed before, she leveraged the peer tutoring program throughout her first year. When she took Introduction to Software Engineering, she found her passion in designing large-scale systems. Her dream is to work at a company such as SpaceX or NASA, because she knows from her internship at Boeing that such organizations build complex systems that interest her. Always one to give back, she is now a peer tutor herself and hopes to one day teach a software engineering courses at a university.



SECURITY

Jimena has loved math, science and computer technology for most of her life. In high school, she was vice president of the school's cybersecurity team, helping to organize cybersecurity competitions and assisting the principal's office in better securing the school's network. She has enjoyed how her software engineering courses continuously bring in real-world systems — for instance, discussing how the software for self-driving cars is designed or studying the anatomy of past security breaches. An avid member of the Cyber@UCI club, she hopes to turn this exposure to the inner workings of software into a career at a cybersecurity research firm.



OPEN SOURCE

Chadwick is fascinated by the way software technology pervades our lives and by the challenges of building and maintaining high quality software. He's been programming since high school and even plays around with open-source software, adding features of his own for fun. He's come to appreciate how some code is beautifully written and documented, while other code is more difficult to understand. He is a senior and, for his capstone project, he is developing a specialized search engine for a national healthcare company, which he hopes will help him land a software engineering job at Amazon or Google.



ONBOARDING

Kang is passionate about using and contributing to online Q&A communities, such as Stack Overflow. He has noticed, however, that such communities are not always inclusive. This has led him to take courses like Social Analysis of Computing and Organizations and Information Systems, as well as some Social Science courses, to better understand challenges related to creating communities that value software engineers from different ethnic and social backgrounds. Upon graduation, he plans to officially launch the 'onboarding platform for new engineers' startup he has been working on with several other software engineering students as well as mentors from UCI Beall Applied Innovation.



EFFICIENCY

Angel loves to write video games in Scratch and has experimented with beginner game engines, such as RPG Maker. They are drawn to the challenges of implementing and maintaining games, especially since some of their favorite games have been plagued with bugs. They want to build games that execute more efficiently — without annoying server crashes or inexplicable lag. They chose software engineering at UCI because they can augment their core courses such as Software Testing and Analysis and Software Design I and II, with courses on game design and development. They hope to join a company like Blizzard or Activision as a programmer/software architect.



*These are personas based on UCI students majoring in Software Engineering