WHAT CAN I DO WITH A COMPUTING DEGREE?

The computer science concentration emphasizes modern approaches to software and hardware development. You’ll master abstract concepts, learn practical applications of theory and gain exposure to the dynamic field of computing. This concentration prepares you for a myriad of careers in the computing field and also provides the foundation needed to pursue further graduate study. Graduates go on to pursue careers as application developers, software engineers, database administrators, software designers, and network architects.

The computing analytics concentration emphasizes the analytical skills that are increasingly requested by organizations. You’ll learn recent technological advances to capture data streams, apply analytics on generated data and create data visualization for corporate strategical planning. Graduates are prepared for careers in the data science field such as data analyst, data scientist, business analyst, data architect and data engineer.

The information technology concentration gives you the opportunity to learn web programming, smart device applications development, experience Internet of Things (IoT) for the purpose of connecting and exchanging data with other devices and systems, as well as opportunities to learn networking, administration, and security skills. Graduates are prepared for careers in computing and related fields, including IT specialist and help desk technician, web developer, system analyst and more.

WHY CHOOSE COMPUTING AT SRU?

1. Up-to-date curriculum: The computing curriculum is designed to easily add new areas in response to a rapidly changing computing industry. The core curriculum consists of 9 courses and each concentration includes coursework to prepare students for a career.

2. Quality faculty: Instructors are full-time faculty members with Ph.D.s who use their expertise and experience to enhance the learning experience. Faculty members are also academic advisers and guide students through their program of study.

3. Projects and research with faculty: Computing students have numerous research projects to select from that result in presentations at regional, state, national and international conferences. Faculty work with any interested students on both existing and new projects. In addition, students are encouraged to compete in programming and security contests.

4. Equipment: The Computer Science Department is home to a variety of specialized equipment for students’ coursework and extracurricular projects in robotics, parallel programming, cybersecurity, 3D visualization and numerous Internet of Things devices. Students at all levels of the program have opportunities to work with devices such as the Lego Robot, iPad, Android Phone, Raspberry Pi, Arduino, NAO Robot, 3D printer and scanner, Alexa, Oculus rift goggles, drones, Furhat robot, and Pepper robot.

5. Industry experts and accreditation: The department has an active review board that holds events for the students and provides feedback on curriculum, hardware, software and assessment. The board assists students in finding internships and jobs with mock interviews, resume workshops and industry awareness dinners. The computing degree is accredited by The Computing Accreditation Commission of ABET.
INTERNSHIP OPPORTUNITIES
SRU computing students have completed internships at various locations including:

- Federal Bureau of Investigation (FBI)
- U.S. Army
- Armstrong Companies
- UPMC
- City of Pittsburgh
- Robomatter Inc.
- Alteryx
- FedEx
- PNC Bank
- Butler Healthcare
- Mylan
- Bayer
- McKesson Corporation
- Creehan Inc.
- Alteryx

CAREER OUTCOMES
Graduates have secured careers in the following areas:

- Software Engineer, Microsoft
- Systems Software Engineer, CMU Create Lab
- Software Developer, Oncology Nursing Association
- Network Programmer, Pittsburgh Supercomputing Center
- Information Security, Federator Investors
- Senior Software Engineer, Bossa Nova Robotics
- Applications Software Engineer, Komatsu Mining
- Software Architect, Truefit
- Deployment Engineer, Philips
- Technical Consultant, CGI
- IT Manager, Penn State University
- Linux System Engineer, CMU
- Quality Assurance Tester, SAE International
- Co-Site Manager, Mammoth Gamers
- IT Support Specialist, ChemADVISOR, Inc.

ALUMNI SPOTLIGHT
Wayne Bloom, ‘21
UPMC Enterprises, Associate Software Engineer
“The curriculum offers a wide approach to fundamental concepts of programming, computer hardware, administration, and cybersecurity. It offers opportunities for exploring broad, but specialized areas with major concentrations, and even more granular with a good choice of modern topical electives. My favorite part of my education was how hands-on and directly applicable it was. Most classes followed a format of interactive lectures, whose content was to be applied to a semester-long project. In my interview for a very competitive internship, a skill in Android development I developed primarily because of one of these projects, was the pivotal reason I was chosen for the position. That company has since hired me full-time, and I can say with confidence it is in no small measure due to one of these projects.”

Jorge Kenzo Balerdi, ‘20
Exa Data Solutions, Software Engineer
“I couldn’t be happier with the education I received in my program. Having come from a completely different background (communication), I was initially worried about not being able to adapt and learn effectively in what seemed like a completely foreign world at the time. With the help of really supportive faculty members, tutors and friends I made in my classes, I quickly fell in love with my major. The program is broad enough to get your feet wet in different areas of computing but provides excellent specialization opportunities in the form of electives toward the end.”

CLUBS AND ORGANIZATIONS
- Computing Technology Club
- Upsilon Pi Epsilon Honorary
- Women in Computing at The Rock

FOR MORE INFORMATION:
www.sru.edu/majors

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