Application Developer

Application developers create customized software solutions to meet clients’ needs. Application developers often build applications from scratch or must combine customized specifications with existing off-the-shelf software. Some specific positions within the application development field include project managers, analysts, designers, programmers, and quality assurance specialists.

CIGNA, HUMANA, IMAGE MATTERS, NORTHWESTERN MUTUAL, OFS BRANDS

Big Data Engineer

Big data engineers extract knowledge from increasing oceans of data, finding patterns in text and images. Big data engineers understand the specialized systems necessary for managing and processing big data, as well as specialized algorithms and techniques such as “deep learning.” They also develop, maintain, and evaluate the big data collected and need a creative eye for finding trends.

EMC, IBM, MICROSOFT, ORACLE, SAP

Business Analyst

Business analysts serve as the connection between business units, technology teams, and support teams of a company, facilitating the business’ reliance on technology. Business analysts need a thorough understanding of how to interpret customers’ business needs and translate them into application and operational requirements.

CROWE HORWATH, DELOITE, EY, GENERAL MOTORS, HURON CONSULTING GROUP, MEDPRO, TATA CONSULTANCY SERVICES

Database Administrator

Database administrators (DBAs) maintain the security and accessibility of company databases to ensure information is secure from unauthorized access while also providing expertise in the design, implementation, and maintenance of database management systems. DBAs also write and test modifications to the database structure by installing upgrades, writing and debugging programs, or restoring data.

BLOOM INSURANCE AGENCY, INDIANA OFFICE OF TECHNOLOGY

Industrial Automation Engineer

Automation is increasingly used in manufacturing to increase productivity and quality. Guided by industrial automation engineers, robots and computer-controlled systems are changing the way products are made. Industrial automation engineers focus on finding ways to make the process of automation more efficient through the design and development of software that can best take advantage of the latest technology.

CUMMINS, GENERAL ELECTRIC

Information Security Analyst/Consultant

Information security analysts plan and implement security measures to protect organizations’ networks and databases from security breaches. They also implement preventative measures, such as backing up and restoring data, developing security practices, and utilizing encryption and firewall programs.

ANTHEM, CROWE HORWATH, GENERAL MOTORS, PWC, SYNOPSYS

A degree from the School of Informatics and Computing prepares you for a technology-related career in a variety of industries and sectors. This list provides an overview of some career options in technology—a growing industry that is rapidly innovating. Opportunities that are unheard of today could be top options in a few years.

Computer science, informatics, and intelligent systems engineering majors may pursue any of these careers, although some options attract more students in a specific major. Each career option lists examples of companies and organizations that hire similar positions. The list of employers is not comprehensive but is designed to demonstrate the variety of employers and industries that hire for technology-related positions.

For School of Informatics and Computing Students

More on back!
Network Engineer

Network engineers are responsible for designing and operating networks, and customizing them for a company’s needs. Our age of software defined networking (SDN) involves an increasing amount of network-centric programming, and network engineers need the skills to take on a variety of tasks while also serving the needs of their customers and working as a team across different groups in an organization.

Programmer

Programmers write code, often in collaboration with software developers, to create the programs developers have designed. In addition to writing code, programmers must be able to debug programs, update existing programs, and utilize a variety of programming languages. In web programming, they may create applications that allow end users to complete tasks on the web, such as buying products or placing orders with a restaurant.

Quality Assurance Analyst/Engineer

Quality assurance analysts/engineers are responsible for identifying, analyzing, and documenting problems with software, programs, and other technology. QA analysts/engineers may develop and write testing programs to find bugs, or participate in product design or review to provide input on function, compliance, designs, or possible problems.

Software Developers/Engineer

Software developers produce computer-based goods and services for consumers and companies. They are in charge of designing programs, instructing programmers who write the programs, and providing upgrades and maintenance to the software. They also coordinate production of software products, from choosing the content providers, assembling graphics creators, and working with programmers through the actual assembling, producing, and distributing of the final product.

Support (Application, Database, Desktop, Software, Technical)

Support professionals are responsible for providing help desk or desktop support to company employees. Desktop support specialists often work on hardware and software issues within a company, determining integration and installation of equipment, selecting vendors, and planning support services.

Systems Engineer

Systems engineers design and coordinate large, complex projects typically involving IT infrastructure, hardware, and system software to ensure that all work together properly. Systems engineers work in close collaboration with software engineers and software developers to select appropriate design solutions for a system, and they may be responsible for design specifications, installation, security, upgrades, and troubleshooting of systems.

Technology Consultant/Analyst

A technology consultant works in partnership with clients, advising them on how to use information technology to meet their business objectives or overcome problems. Consultants work to improve the efficiency and effectiveness of an organization’s technologies. Technology consultants may be involved in a variety of activities, including marketing, project management, client relationship management, and systems development.

User Experience (UX) Designer

User experience designers are responsible for understanding, evaluating, and improving how users interact with a particular system, such as a website or application. UX designers may also be involved in decisions involving marketing, finance, customer support, interface design, and any other areas that impact the user’s experience with the product.

User Interface (UI) Designer

User interface designers are responsible for creating user interfaces for applications, for conducting usability tests to ensure interfaces are problem-free and user-friendly, and for contributing to the overall user experience. They will also create graphic and user interface solutions for various portals and applications, as well as web designs.

Web Developer

Web developers are programmers who create and design websites to meet the needs and expectations of clients and the website’s audience. Web developers often create sites from scratch, and they are often responsible for technical aspects of the site, such as performance and traffic capacity, as well as design, graphics, and layout. Some of the programming languages that web developers currently use are Java, C++, C#, Perl, PHP, HTML, CSS, JavaScript, and MySQL.

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CNO FINANCIAL GROUP, HERMAN MILLER, KIMBALL INTERNATIONAL, TEXTRON

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