JAVA DEVELOPER PROGRAM

A ten-week comprehensive program covering object-oriented applications development using the Java™ programming language

DePaul University's Java Developer Program is designed to provide programmers with an intensive and comprehensive introduction to component software development using the Java™ language. Components are well-suited to the development of large, complex software systems, particularly graphical user interfaces. The Java Developer Program focuses on Java as a general purpose, cross-platform applications language; the program also covers ancillary interfaces for the development of distributed systems and graphical user interfaces.

Classroom lectures and demonstrations will be complemented by reading and programming assignments. The software used in this program is all open-source or is freely available for download.

YOU WILL LEARN:

- Java basics
- object-oriented programming fundamentals
- standard Java class libraries
- multi-threaded programming
- graphics
- GUI platforms
- network programming
- JDBC™
- applets
- Java development tools
- testing
- Java Virtual Machine (JVM)™
- security
- Java and XML

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JAVA DEVELOPER PROGRAM

Java is the most significant development in programming languages in recent years. Java provides a clean, object-oriented model in a simple interpreted language. Because Java code compiles into a platform-independent format, the same Java executable can run in any environment that implements the Java Virtual Machine (JVM).

Java provides facilities to simplify and secure distributed systems. Java has built-in libraries for networking, including sockets and remote procedure calls; for vendor-independent, n-tier database applications; for security; and for graphical user interfaces. Java’s multi-threaded model is also useful for graphics and multimedia applications.

The Java Developer Program is intended for individuals with a solid programming background, but no knowledge of Java is assumed. Participants are expected to do a considerable amount of work outside of class. Instructors will be available in person and through electronic mail.

CURRICULUM

The following topics are covered in the program. Each unit involves reading assignments as well as programming assignments. The software used in the program is all open-source or freely available for download to the student’s own computing environment. It is also available in the Institute’s dedicated computer laboratory.

<table>
<thead>
<tr>
<th>OVERVIEW/ENVIRONMENT</th>
<th>Development environments. Java Development Kit overview. Language overview. Directions for download and installation of software used in the program.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DATABASE</td>
<td>Introduction to JDBC. JDBC programming and applications. Driver types. Class support. Class library support.</td>
</tr>
<tr>
<td>APPLETS</td>
<td>Applets versus applications. Downloading basics. HTML encoding. Applet containers. Applet security. HTTP protocol.</td>
</tr>
<tr>
<td>TESTING AND JAVA DEVELOPMENT TOOLS</td>
<td>Introduction to various Integrated Development Environments (IDEs) and testing tools commonly used in industry.</td>
</tr>
<tr>
<td>FUTURE OF JAVA</td>
<td>Future directions and corrections.</td>
</tr>
</tbody>
</table>
GENERAL INFORMATION

ADMISSION

Applicants must have a solid programming background (at least two years of professional software development experience is required).

A substantial commitment of time is required for this intensive course of study. Final admission will be determined by the admissions committee on the basis of an applicant's overall qualifications, including work history and educational background.

FACILITIES

To promote the learning process, the Institute maintains special-purpose laboratories as well as dedicated classrooms equipped with state-of-the-art audio/visual equipment.

In addition, the college's unique Course OnLine (COL) technology allows students to replay classes over the Internet. COL captures and replays five components of the classroom experience—audio, video, PC screen, whiteboard, and document camera input—and incorporates them into one interface to provide an innovative rebroadcast system.

CLASSES

The Institute offers one section of the program each quarter. Classes meet on Monday and Wednesday evenings and in the morning on approximately half of the Saturdays during the program.

FACULTY

The faculty consists of a team of instructors from the College of Computing and Digital Media and experts in industry. Faculty will be available throughout the program both in person and through electronic mail.
The college, through its School of Cinematic Arts, School of Computing, and its School of Design, offers a variety of programs at the undergraduate and graduate levels. Over 3,000 students are enrolled in the college’s bachelor’s programs and over 2,700 students are enrolled in the master's and Ph.D. programs making the college’s graduate program one of the largest in the country. The college offers more than 300 courses each quarter, many in the evening, and primarily in the Loop and Lincoln Park Campuses. Most of the degree programs are also available exclusively online.

Offerings at the undergraduate level include:
- Animation B.A. / B.F.A.
- Computer Science B.S.
- Cyber-Physical Systems Engineering B.S.
- Cybersecurity B.S.
- Data Science B.S.
- Film and Television B.A. /B.F.A.
- Game Design B.S.
- Game Programming B.S.
- Graphic Design B.F.A.
- Information Systems B.S.
- Information Technology B.S.
- Interactive and Social Media B.S.
- Math and Computer Science B.S.
- Network Engineering and Security B.S.

Offerings at the graduate level include:
- Animation M.A.
- Applied Technology M.S.
- Business Information Technology M.S.
- Computational Finance M.S.
- Computer Science M.S.
- Cybersecurity M.S.
- Digital Communication and Media Arts M.A.
- E-Commerce Technology M.S.
- Experience Design M.A.
- Game Programming M.S.
- Health Informatics M.S.
- Human-Computer Interaction M.S.
- Information Systems M.S.
- IT Project Management M.S.
- Network Engineering and Security M.S.
- Predictive Analytics M.S.
- Product Innovation and Computing M.S.
- Software Engineering M.S.
- J.D./M.S. in Computer Science Technology

Master’s of Fine Arts
- Animation
- Creative Producing
- Documentary
- Film and Television
- Game Design
- Screenwriting

Ph.D. in Computer and Information Sciences
- Ph.D. in Human Centered Design

INSTITUTE FOR PROFESSIONAL DEVELOPMENT

The Institute for Professional Development was formed by the college in 1984 to assist both individuals and businesses in keeping pace with the rapid development of computer technologies. The Institute currently offers a variety of intensive certificate programs in these areas:

- Advanced SQL
- Big Data and NoSQL
- Big Data Using Hadoop
- Big Data Using Spark
- Cloud Computing Technologies
- Data Science for Business
- Fundamentals of R
- Introduction to SQL
- iOS Developer
- IPv6
- Java™ Developer
- Modern Information Technology
- Modern .NET Web Development
- SQL Server® Business Intelligence
- SQL Server® Database Administration
- Technology & Innovation
- Web Development with JavaScript and HTML5

APPLICATION PROCEDURE:

Complete the enclosed application and return it with a non-refundable $40.00 application fee (check or money order made payable to DEPAUL UNIVERSITY) to:

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Institute for Professional Development
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