



CUYAHOGA VALLEY
CAREER CENTER

Certificate of Career Preparation

Bogdan Gura

Has completed two years of
hands-on skills and related technical training in

Programming & Software Development

Provided by Cuyahoga Valley Career Center in cooperation with the
Ohio Department of Education, Division of Career-Technical and Adult Education

June 2024



Skills Endorsement
"C" or Better Grade Average



Attendance Endorsement
Indicates 95% or Better Attendance



Jami Little
Jami Little, Instructor

Michael W. Hall
Michael W. Hall, Principal

David L. Mangas, Jr.
David L. Mangas, Jr., Superintendent

Achievement Profile for Bogdan Gura

Programming & Software Development 2024

Bogdan Gura has completed coursework in
Programming & Software Development at Cuyahoga Valley Career Center.

Bogdan Gura has exhibited entry-level employment skills in the areas indicated below during their training, as observed by the program instructor.

Business Operations / 21st Century

- Develop career awareness and employability skills needed for gaining and maintaining employment in diverse business settings.
- Process, maintain, evaluate, and disseminate information in a business.
- Develop leadership and team building to promote collaboration.
- Demonstrate current and emerging strategies and technologies used to collect, analyze, record, and share information in business operations.
- Evaluate how beliefs, values, attitudes, and behaviors influence organizational strategies and goals.
- Plan, organize, and monitor an organization or department to maximize contribution to organizational goals and objectives.

IT Fundamentals

- Identify trending technologies, their fundamental architecture, and their value in the marketplace.
- Install and maintain operating systems.
- Install and configure hardware and software.
- Explain the fundamental of delivering information and applications using web architecture.
- Describe the fundamentals of databases.
- Develop a project concept proposal.
- Select, operate, and maintain equipment.
- Select and apply troubleshooting methodologies for problem solving.
- Develop performance tests and acceptance plans.
- Plan rollout and facilitate handoff to customer.

Information Security

- Describe the components associated with information security systems.
- Implement and maintain general security compliance.

Infrastructure Systems

- Compare and contrast network protocols.
- Describe IP addressing schemes and create subnet masks.

Programming and Software Systems

- Describe programming concepts.
- Develop code that performs computational and string operations.
- Develop code that uses logical operations and control structures.
- Build and test a program using an integrated development environment (IDE).
- Develop programs using applications security practices.
- Apply the software development lifecycle (SDLC).
- Create programs using Java.
- Create programs using C#.

Web Development

- Create basic webpages using HTML and CSS.
- Add links to a webpage and insert multimedia files.
- Integrate scripting into a webpage using JavaScript.
- Integrate forms into a webpage.
- Create and update a website.

Databases

- Develop a data model to describe an application's data.
- Design and create databases.
- Enter and access data in databases.
- Manage databases.
- Use SQL to manipulate data and to query a database.

Industry Credentials Earned

- IC3 Digital Literacy
- Microsoft Office Specialist:
Word 2019, Excel 2019, PowerPoint 2019, Access Expert 2019
- Information Technology Specialist:
HTML and CSS, Java, JavaScript, Python