# Job Application – Homework

## Prepare Your CV

You are given a couple of **job offers**. Your task is to **apply for one of them**. Start with the preparation of your **CV**.

Use the presentation from the lab resources as your guide. Don’t forget to **customize your CV** according to the corresponding job offer. Use the following advices as a starting point:

* Analyze the job description
* Identify the job responsibilities and requirements
* Match the required skills and experience from the job posting in your CV
  + For each requirement from the job posting, you should have a project / certificate or other asset, which matches this requirement
* Reorder your CV sections if necessary
* Don’t forget to use keywords

## Write a Cover Letter

Create an appropriate **cover letter** (200-250 words). Use the presentation from the lab resources as your guide. Your cover letter may have the following sections:

* Addressing specific person
* Aligning personal values to company’s values
* Highlighting relevant skills and experience, mentioned in the job posting
* End with a strong appeal

or

* Opening sentence / hook
* Showing enthusiasm and passion
* Benefits offered to the employer, matching the job requirements
* Closing with a clear call

## Write a CV with ChatGPT

**ChatGPT** and similar **generative AI platforms** may help you **build your CV** from your educational profile. Just for example, try the following prompt in ChatGPT:

|  |
| --- |
| **Interview Simulation Prompt for ChatGPT** |
| I need help to create my professional resume (CV).  This is some information about me:  ``` My name is Kristian Krumov. My experience with Java comes from SoftUni. I have graduated the “Java Web Developer” track, which includes the following training courses:  • Course “Programming basics with Java”, where I learned: Working with the console (data input and output)  Working with loops (for)  Work with more complex logical checks  Working with logical checks (if-else)  Perform simple calculations  Working with more complex loops (nested for loops and while)  • Course “Programming Fundamentals with Java”, where I learned: Handling the standard functionality of the programming language  Working with linear data structures  Understanding the interrelationship between different IT concepts  Problem analysis and reduction to computer-executable steps  Basic HTML and CSS skills  • Course “Java Advanced”, where I learned: Creating linear data structures  Application of functional programming  Create generic classes  Application of basic algorithms  Work with data streams, files and directories  Working with multidimensional and associative data structures  • Course “Java OOP”, where I learned: Using the object-oriented programming paradigm  Data encapsulation  Using Reflection  Applying the principles of object-oriented programming  Creating a class hierarchy and inheritance  Unit testing  • Course “Databases and MySQL”, where I learned: Transaction management  Using the ACID model  Fundamental knowledge of working with databases  DB relation management  Using procedures and functions  Creation of basic Back-End architectures  • Course “Spring Data”, where I learned:  Building an application architecture correctly  Using the Database First approach  Working with databases using an ORM framework  Building connections between an application and a database  Using the Code First approach  Working with XML and JSON data formats  • Course “Spring Fundamentals”, where I learned:  Generate HTML content using templates  Working with cookies and sessions  Working with the HTTP protocol  Building web applications with the Spring MVC framework  Working with basic principles of Spring framework  Bootstrap skills and experience  • Course “Spring Advanced”, where I learned: Building REST services with Spring  Building architecture in Spring MVC applications  Testing web applications built with Spring MVC  Use of authentication  Deploying a Spring MVC application  Building more complex web applications with the Spring framework  • Course “HTML & CSS”, where I learned:  Ability to create static web pages  Styling websites with CSS  Basic knowledge of building web pages  Learning the basics of typography  Creation of adaptive (responsive) web design  Creating modern websites  • Course “JS Front-End”, where I learned: Knowledge of basic JavaScript syntax  Working with classes and objects  Working with functions and expressions  Working with linear structures  Information extraction and manipulation of the DOM tree  Working with HTTP and REST  I have worked on several hands-on projects with Java, Spring, Spring Data, Hibernate, Spring MVC, JavaScript and MySQL. This is my GitHub portfolio, holding my Java projects, developed during my study: https://github.com/kristian9577  ```  Please ask me for more relevant information, if something is missing. |

This is a **sample output** from ChatGPT for the above prompt:

A screenshot of a computer

Description automatically generated with medium confidence

A screenshot of a computer

Description automatically generated with medium confidence

## Write a Cover Letter with ChatGPT

**ChatGPT** and similar **generative AI platforms** are excellent tools to help you write a cover letter. It is important to describe your skills and give enough information for the target company in your prompt.

To get some experience, open ChatGPT (<https://chat.openai.com>) and enter the following **prompt**:

|  |
| --- |
| **Interview Simulation Prompt for ChatGPT** |
| I need a cover letter for applying for “junior Java developer” job at company “Mente Soft”. This is the job posting:  ```  Junior Java Developer  What's great in the job?  • Excellent salary package and yearly bonus scheme  • Dynamic and interesting projects for international clients  • Continuous training and various professional development opportunities  • Individual career path in an international company  • Work-life balance, friendly work environment, exciting team buildings  • Healthy work environment - company sponsored supplementary medical insurance and participation in a sports  program (MultiSport)  • 100% Remote work with optional workspace in co-working environment  • Employee referral program  Responsibilities  • Development of innovative solutions  • Maintain and extend existing software modules (IT back-end, service platforms)  • Close collaboration with other partners and client specialists  • Polite and professional communication  • 1+ years of Java experience is required  • Experience with Hibernate  • Database knowledge (Preferably MySQL)  • Experience with Microservices  • Experience in working in an Agile Development team  • Experience with Spring  • Good English knowledge is required  • Independent and self-motivated personality with good problem-solving skills  • Willingness to work in an international environment with distributed teams  • Experience with Apache Karaf  • Experience with Apache Camel  • Experience with Elasticsearch  • Experience with Angular  • Experience with delivery and development of medium or large-scale projects is an advantage  • Open to working together with client specialists if required  ```  This is some information about me:  ``` My name is Kristian Krumov. My experience with Java comes from SoftUni. I have graduated the “Java Web Developer” track, which includes the following training courses:  • Course “Programming basics with Java”, where I learned: Working with the console (data input and output)  Working with loops (for)  Work with more complex logical checks  Working with logical checks (if-else)  Perform simple calculations  Working with more complex loops (nested for loops and while)  • Course “Programming Fundamentals with Java”, where I learned: Handling the standard functionality of the programming language  Working with linear data structures  Understanding the interrelationship between different IT concepts  Problem analysis and reduction to computer-executable steps  Basic HTML and CSS skills  • Course “Java Advanced”, where I learned: Creating linear data structures  Application of functional programming  Create generic classes  Application of basic algorithms  Work with data streams, files and directories  Working with multidimensional and associative data structures  • Course “Java OOP”, where I learned: Using the object-oriented programming paradigm  Data encapsulation  Using Reflection  Applying the principles of object-oriented programming  Creating a class hierarchy and inheritance  Unit testing  • Course “Databases and MySQL”, where I learned: Transaction management  Using the ACID model  Fundamental knowledge of working with databases  DB relation management  Using procedures and functions  Creation of basic Back-End architectures  • Course “Spring Data”, where I learned:  Building an application architecture correctly  Using the Database First approach  Working with databases using an ORM framework  Building connections between an application and a database  Using the Code First approach  Working with XML and JSON data formats  • Course “Spring Fundamentals”, where I learned:  Generate HTML content using templates  Working with cookies and sessions  Working with the HTTP protocol  Building web applications with the Spring MVC framework  Working with basic principles of Spring framework  Bootstrap skills and experience  • Course “Spring Advanced”, where I learned: Building REST services with Spring  Building architecture in Spring MVC applications  Testing web applications built with Spring MVC  Use of authentication  Deploying a Spring MVC application  Building more complex web applications with the Spring framework  • Course “HTML & CSS”, where I learned:  Ability to create static web pages  Styling websites with CSS  Basic knowledge of building web pages  Learning the basics of typography  Creation of adaptive (responsive) web design  Creating modern websites  • Course “JS Front-End”, where I learned: Knowledge of basic JavaScript syntax  Working with classes and objects  Working with functions and expressions  Working with linear structures  Information extraction and manipulation of the DOM tree  Working with HTTP and REST  I have worked on several hands-on projects with Java, Spring, Spring Data, Hibernate, Spring MVC, JavaScript and MySQL. This is my GitHub portfolio, holding my Java projects, developed during my study: https://github.com/kristian9577  ```  Please write a cover letter to apply for the above mentioned job. |

In the above prompt I have taken the **Java Web Developer curriculum** description from the SoftUni Web site: <https://softuni.bg/curriculum>. You may use a similar approach if you apply for a JS front-end developer, Python Web developer or QA engineer.

Modify the above prompt to match the **highlights from the job posting** and the **highlights of your experience** (taken from your CV). Describe your experience, courses taken, certifications, and projects. Execute the above prompt several times and take the best from the output. Compile your cover letter yourself!

This is a **sample result** from ChatGPT for the above prompt:

A screenshot of a computer

Description automatically generated with medium confidence

A screenshot of a computer

Description automatically generated with medium confidence