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|  | En esta pauta encontrarás preguntas orientadoras para tu reflexión. Las primeras te ayudarán a recordar las principales competencias aprendidas a lo largo de tu carrera. Las siguientes preguntas, buscan ayudarte a definir tu proyecto APT a partir de tus fortalezas, oportunidades de mejora e intereses profesionales.  Se sugiere que tengan como material de apoyo las evidencias recolectadas a lo largo de todo el proceso de portafolio, y que revises en el anexo de la guía del estudiante tu malla curricular, y las competencias y unidades de competencia por asignatura. |

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| Puedes responder en cada una de las secciones por pregunta en esta guía y, posteriormente, cargarla en la sección de reflexión de la Fase 1, para retroalimentación de tu docente. |

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| 1. Revisa la malla de tu carrera, piensa en las asignaturas o certificados de competencias que has cursado hasta ahora. Responde: |
| **¿Cuáles son las asignaturas o certificados que más te gustaron y/o se relacionan con tus intereses profesionales? ¿Qué es lo que más te gustó de cada uno?**  The disciplines that have fascinated me the most throughout my education and career as a computer engineer are:  Business Intelligence, Big Data, Data Mining, Cybersecurity, and Machine Learning.  Business Intelligence: This subject opened my eyes to how data can be transformed into valuable insights for making strategic decisions in the business realm. Through it, I understood how one can gain a competitive advantage by understanding the trends and patterns of a business.  Big Data: In a world where we increasingly generate more data, handling and analyzing large volumes of information is crucial. This course taught me the techniques and tools to manage and process data on a large scale, and how these can be used to uncover hidden opportunities.  Data Mining: I was fascinated by how, through algorithms and analysis techniques, we can uncover patterns and relationships in data sets that at first glance seem random. This skill is essential in the information age, where extracting knowledge from data is vital.  Cybersecurity: As we become more reliant on digital systems, ensuring their security is imperative. This subject made me understand the importance of protecting information, not only from a technical standpoint but also ethically. I learned about current threats, how to counter them, and the responsibility that comes with being a guardian of data integrity.  Machine Learning: The ability to teach machines to learn on their own and improve over time is revolutionary. This discipline showed me how, through the use of algorithms and mathematical models, we can create systems that adapt and evolve, which has incredible potential in various applications.  **A partir de las certificaciones que obtienes a lo largo de la carrera ¿Existe valor en la o las certificaciones obtenidas? ¿Por qué?**  The certifications I've obtained throughout my academic journey as a computer engineering student hold significant value. These recognitions are not just trophies or adornments on a resume; they are validations that I've acquired specific knowledge and skills in particular areas of the IT field. These certifications:  Endorse Knowledge: They ensure that I've gone through a rigorous learning and evaluation process and have demonstrated proficiency in the certified areas.  Reflect Practical Experience: They represent not only theory but also hands-on practice. Often, to achieve a certification, it's required to undertake practical exercises, projects, or even accumulate hours of experience in a specific topic. |

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| 2. Revisa las competencias y unidades de competencias correspondientes a cada asignatura de la malla de tu carrera. Marca en **verde** las competencias o unidades de competencia que consideras son tus **fortalezas** y en **rojo** las que requieren ser fortalecidas. A partir de este ejercicio responde: |
| * **¿Cuáles consideras que tienes más desarrolladas y te sientes más seguro aplicando? ¿En cuáles te sientes más débil y requieren ser fortalecidas?**   Throughout my training as a computer engineering student, I have had the opportunity to acquire and practice various competencies essential for the industry. Below, I detail some of my strengths and areas of opportunity:  Strengths:  Software Development and Maintenance: I feel confident applying techniques to systematize development and maintenance processes, thus ensuring the achievement of set objectives.  Data Model Construction: I am equipped to construct robust and scalable data models that cater to organizational needs and a defined design.  Programming and Best Practices: I possess skills in constructing programs and routines of varied complexity, consistently aligned with market technologies and adhering to the best coding practices.  Certification Testing: I have competencies in conducting tests to certify products and processes, relying on the best industrial practices.  Implementation of Systemic Solutions: I feel assured when implementing comprehensive solutions aimed at automating or optimizing business processes as per the demands of the organization.  Transformation of Large Volumes of Data: I can execute the transformation of data on a large scale to extract valuable insights, thus aiding decision-making and business process enhancement.  Areas of Opportunity:  Database Manipulation: Although I have basic knowledge in database programming, I recognize the need to further strengthen this skill to be on par with my other competencies.  Systemic Architectural Model: While I have a solid foundation in building systemic solutions, I believe that with more experience and training, I can perfect the construction of architectural models that support business processes.  My goal is to continue training and practicing in the areas where I identify opportunities for improvement, to thereby present a more comprehensive and balanced profile as a computer engineer. |

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| 3. A partir de las respuestas anteriores y el perfil de egreso de tu carrera (competencias), responde las siguientes preguntas: |
| * **¿Cuáles son tus principales intereses profesionales? ¿Hay alguna área de desempeño que te interese más?**   Throughout my academic training in computer engineering, I have discovered areas that I am passionate about and that align with my professional interests. Among these areas are Business Intelligence, Big Data, Data Mining, Cybersecurity, and Machine Learning.  These disciplines have shown me the power and potential of data in the modern world, as well as the importance of protecting and managing information efficiently and securely.  Within these areas, I have a particular interest in the role of a Data Engineer. I believe that data engineering is fundamental in today's era, where the amount of information generated daily is overwhelming. I am motivated by the idea of building, maintaining, and optimizing systems that allow for the processing and analysis of large datasets, thus facilitating the extraction of valuable insights that can transform industries and improve decision-making.  In the future, I hope to continue delving deeper into this specialty, applying the skills and knowledge acquired during my training to make a significant contribution to the field of computer science and data management.   * **¿Cuáles son las principales competencias que se relacionan con tus intereses profesionales? ¿Hay alguna de ellas que sientas que requieres especialmente fortalecer?**   The main competencies related to my professional interests as a future Data Engineer include managing and transforming large volumes of data, constructing efficient data pipelines, using Big Data tools and platforms, and implementing scalable storage solutions. Additionally, it's crucial to have a deep understanding of programming languages such as Python or Scala and skills in both SQL and NoSQL databases.  Although I have gained a solid foundation in these areas during my computer engineering education, I feel that I especially need to strengthen my practical experience in building real-time data pipelines and optimizing queries for distributed databases. I will continue to seek opportunities to develop these skills as I progress in my career.   * **¿Cómo te gustaría que fuera tu escenario laboral en 5 años más? ¿Qué te gustaría estar haciendo?**   In 5 years, I envision myself as a leading Data Engineer at an innovative company, tackling major challenges and at the forefront of technology. I am committed to continuous learning and hope to share my knowledge by teaching courses on intelligence and Big Data, inspiring the next generation of professionals. |

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| 4. Finalmente, piensa en el proyecto que desarrollarás en APT y responde a las siguientes preguntas: |
| * **Los Proyectos APT que ya habías diseñado como plan de trabajo en el curso anterior, ¿se relacionan con tus proyecciones profesionales actuales? ¿cuál se relaciona más? ¿Requiere ajuste?**   My APT projects closely align with my professional goals as an engineer focused on data analysis. The "Real-time Public Opinion Tracking" directly addresses the needs of the Valparaíso Municipal Corporation. In an era where immediacy and transparency are paramount, this project provides a real-time window into citizens' perceptions of the services provided. Its ability to detect and preempt potential crises is essential for any communal organization.  On the other hand, the "Patient Segmentation System for Treatment Personalization" showcases the promise of advanced analytics applied to the healthcare sector, prioritizing personalized care and treatment efficacy.  Given the context and the client's priorities, tracking public opinion seems most relevant at this time, especially when public health and citizen perception are so closely intertwined.   * **Si no hay ninguna que se relacione suficiente:** * **¿Qué área(s) de desempeño y competencias debería abordar este Proyecto APT?** * **¿Qué tipo de proyecto podría ayudarte más en tu desarrollo profesional?** * **¿En qué contexto se debería situar este Proyecto APT?**   Both APT projects focus on data analysis, essential for my professional growth. The one that aligns best with the implementation is the public opinion and health analytics, aimed at optimizing community services. |