

# Carter Schmidt

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## SUMMARY

Senior-Standing Computer Science major seeking a full-time position in Software Engineering. Proficient in many programming languages and environments, an extensive education in mathematics, and full stack development experience including software engineering, database management, machine learning, and more. Possesses exceptional leadership and communication skills that facilitate an effective teamwork environment.

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## EDUCATION

**Villanova University**, Villanova, PA

May 2023

- Bachelor of Science in **Computer Science** | GPA: 3.94 | Major GPA: 4.00
  - Coursework includes:
    - Algorithms and Data Structures, Databases, Data Science, Machine Learning, Computing Systems
    - Discrete Math, Differential Equations, Linear Algebra, Multivariable Calculus
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## SOFTWARE ENGINEERING EXPERIENCE

Software Engineer Intern, **Garmin**, Olathe, KS

May 2022-Present

- Utilize C++, C#, SQL/SQLite, Qt, and other technologies to develop complex applications
  - Develop an innovative, internal testing tool using millions of data points to generate routes and evaluate fitness routing technology
  - Understand and improve large code bases consisting of hundreds of files and multiple submodules
  - Create new features for existing applications, while thoroughly reviewing code and adding Unit tests to prevent bugs from being introduced
  - Collaborate with different teams to create requirements and design software that best achieves a common goal
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Undergraduate Researcher, **Villanova University**, Villanova, PA

May 2021-May 2022

- Utilize Python and Jupyter Notebook to create sophisticated machine learning models based on large datasets ranging from 10,000 data points to over 500,000 data points
  - Design a Visualization Website using D3, Crossfilter, and several other JavaScript libraries to effectively convey trends and machine learning predictions to users
  - Create a database in MongoDB to easily import, modify, and query data, while serving as the back-end for the website
  - Use Python Flask, HTML, and CSS to establish an effective foundation for the visualization tool
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## TECHNICAL SKILLS

- Advanced proficiency in C/C++, Java, Python, SQL, JavaScript, HTML, CSS, and Git
  - Full stack development, including relational/non-relational databases (Oracle DBS, MongoDB, MySQL, etc.), cloud services (AWS), front-end web design (CSS Grid, Bootstrap, React), and back-end app development
  - Memory Management and Time/Space optimization using advanced algorithms and data structures
  - Experience with Machine Learning and Data Science implementations in Python
  - Microsoft Excel, Word, PowerPoint
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## LEADERSHIP AND ACTIVITIES

- Principal Cellist, Villanova Chamber Strings
- Programming Team Member (Participating in coding competitions within and outside of Villanova)
- Developer Student Club Member