

# Joseph H. Deerin

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## Education

**Georgia Institute of Technology**, Atlanta, GA August 2016 – December 2020 (Expected)  
Bachelor of Science in Computer Science, Minor in Philosophy of Science  
GPA: 4.0 / 4.0

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## Skills and Awards

**Programming:** Python, C/C++, Ada, Java, Javascript, HTML, CSS  
**Technologies:** Git, Vagrant, Vue.js, Atlassian Suite, Unity, Blender, GIMP / Photoshop  
**Awards:** Eagle Scout, VGDev Exemplary Contributor, Bits of Good 2018 Best Team Project

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## Experience

**NASA Jet Propulsion Laboratory**, Pasadena, CA May 2020 – August 2020  
*Flight Software Engineering Intern*

- ◆ Refactored C++ code on F', a software framework for small-scale satellites used on Mars Helicopter
- ◆ Designed and implemented a command-line interface for the F' Ground Data System in Python, including tab completion, UNIX integration, and multi-platform support
- ◆ Implemented a dynamic user-configurable GUI for the GDS using Vue.js and ES6/HTML/CSS

**Georgia Tech Research Institute**, Atlanta, GA January 2018 – August 2019  
*Electronic Warfare and Avionics Development Co-op*

- ◆ Designed, implemented, and tested cross-platform radio communication and other libraries for Windows, Linux, and VxWorks 653 in Ada/C for use in electronic warfare systems in military aircraft
- ◆ Wrote 100+ unit and integration tests in Ada/C/C++ for over a dozen new and existing modules, catching multiple years-old bugs and assisting in safety-critical refactoring efforts

**12:34 MicroTechnologies**, Lancaster, PA May 2017 – August 2017  
*Web Development Intern*

- ◆ Implemented a customer-management web app for 110+ Microsoft CSP customers in C#/ES6/HTML/CSS
- ◆ Researched and drafted reports on existing CSP customers, making recommendations on additional development services the company could offer; presented findings before CEO and Lead Developer

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## Projects

**Midtown Assistance Center Tutoring App** August 2018 – April 2019

- ◆ Assisted in Bits of Good's planning and development of a MERN-stack web app for connecting underprivileged students with tutors in the Atlanta area
- ◆ Improved UX by implementing tooltips and automatic sign-ins, based on user feedback

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## Activities

**Bits of Good**, *Senior Developer*: Nonprofit software development, worked on web applications for World Water Relief and Midtown Assistance Center  
**VGDev**, *Member*: Game development, worked on VR FPS *Bit.Spike* and roguelike *Shifting Dungeon*  
**Baptist Collegiate Ministries**, *Bible Study Co-Leader*: Prayer team member and volunteer  
**Georgia Tech Academic Team**, *Treasurer*: Helped organize/run multiple college tournaments