

# Brady Klein

## Current DoD Secret Clearance

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**Permanent:** 13 Bishops Ct.

Washington, IL 61571

**School:** 403 Memorial Dr.

Cambridge, MA 02139

## EDUCATION

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- **Massachusetts Institute of Technology** Cambridge, MA  
*Candidate for Bachelors in Artificial Intelligence and Decision Making; GPA: 4.9/5.0* Aug 2020 - May 2024
  - **Coursework Topics:** Artificial Intelligence, Machine Learning, Robotics, Dynamical System Modeling & Control Design, Computational Cognitive Science, Algorithms, Math for Computer Science, Linear Algebra, Probability and Statistics, Neuroscience, Spanish, Portuguese

## SKILLS SUMMARY

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- **Languages:** Python (most proficient), TypeScript, Java, WebPPL, LaTeX
- **Tools:** GIT, Docker, Atlassian Suite (Jira, Confluence, Bitbucket), ROS, Ubuntu Linux, Azure DevOps, AWS, WSL, Visual Studio Code (VSCode), PyCharm, Anaconda, Spyder, Sonatype Nexus Repository, Jenkins, SonarQube

## WORK EXPERIENCE

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- **Northrop Grumman Corporation** Huntsville, AL  
*College Intern Technical* June - August 2023
  - Worked as a backend developer on an agile development team integrating multiple languages into mission capable systems.
    - \* Wrote algorithms for predictive analytics using AI libraries in Python.
    - \* Developed notification service API to relate device information to users in TypeScript.
    - \* Utilized existing and developed code for new Docker containers.
    - \* Built and demonstrated how to integrate Python services into existing TypeScript repository and CICD pipelines.
  - Participated in sprint planning, reviews, and presented work for chief architects and directors.
    - \* Researched and Implemented techniques to optimize meeting structure.
  - Models Based Systems Engineering/Digital Engineering
    - \* Created Unified Modeling Language (UML) diagrams for team members to import in Cameo Systems Modeler.
    - \* Created sequence diagrams for high level overviews of Python and TypeScript codebases.
- **Caterpillar Inc.** Peoria, IL  
*Corporate Intern — Digital & Analytics* May - August 2022
  - Collaborated on a moderate sized agile development team that created production level software to be utilized by the company's data engineers.
  - Maintained CICD pipelines across an extensive repository, using object oriented programming languages, GIT version control, and DevOps platforms.
  - Implemented parallel unit testing for CICD pipelines to improve efficiency of the testing suite.
  - Competed in a department wide hackathon for software interns.
- **MIT Department of Electrical Engineering and Computer Science** Cambridge, MA  
*Teaching Assistant, Learning Assistant* January 2022 - Current
  - **Teaching Assistant:** Leading recitations, overseeing project teams, communicating with and advising students, and grading assignments for MIT's Design Thinking, Innovation, and Leadership in Engineering (D-TILE) class.
  - **Learning Assistant:** Assisted and tutored students in object-oriented programming, performed checkoffs to evaluate students understanding of their code, and proofread and coded sample solutions for programming problem sets.

## LEADERSHIP EXPERIENCE

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- **Delta Kappa Epsilon Executive Committee – MIT Chapter** Cambridge, MA  
*Treasurer* April 2022 - Current
  - Manage general ledger, accounts payable, and accounts receivable for annual budget of \$400,000.
  - Receive, record, and authorize requests for disbursements.
  - Develop and maintain relationships with banking, insurance, and MIT Interfraternity Council entities to facilitate financial activities.
- **Gordon-MIT Engineering Leadership Program (GEL)** Cambridge, MA  
*Gordon Engineering Leader* September 2022 - May 2023
  - Participated in selective leader development program focused on being an effective member or leader of industry engineering teams.
  - Actively practiced leadership, teamwork, and communication skills in an engineering context; complementing MIT's technical coursework.

## HONORS AND AWARDS

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- NCAA NEWMAC Football Academic All-Conference 2021, 2022