Brady Klein

Current DoD Secret Clearance
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Education

- **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
  - **Beginning enrollment in Master of Engineering (MEng) program** (September 2024 – May 2025)

Skills Summary

- **Languages:** Python (most proficient), TypeScript, SQL, Java, C, 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, PyDrake

Work Experience

- **MIT MISTI Global Teaching Labs** — Madrid, Spain
  Computer Science Instructor — *January 2024*
  - Taught in Spain's public school system, instructing over 100 students on introductory computer science and objected-oriented programming in Python.
  - Led a project team of students in developing a back-end suite for games such as hangman and wordle.
- **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.
    - Designed and implemented algorithms for predictive analytics using AI libraries in Python.
    - Developed notification service API to relate device information to users in TypeScript.
    - 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.
  - Practiced 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.
- **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**: Assisting and tutoring students in office hours, performed checkoffs to evaluate students understanding of their code, and proofread and coded sample solutions for programming problem sets.
- **Caterpillar Inc.** — Peoria, IL
  Corporate Intern — Digital & Analytics — *May - August 2022*
  - Collaborated on a agile development team, maintaining CICD pipelines across an extensive repository, using object oriented programming, GIT version control, and DevOps platforms.
  - Implemented parallel unit testing for CICD pipelines to improve efficiency of the testing suite.

Leadership Experience

- **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 entities to facilitate financial activities.
- **Gordon-MIT Engineering Leadership Program (GEL)** — Cambridge, MA
  Gordon Engineering Leader — *September 2022 - May 2023*

Honors and Awards

- NCAA NEWMAC Football All-Conference 2023, Academic All-Conference 2021, 2022, & 2023
- Gridiron Club of Greater Boston Swede Nelson Award 2023