

# Jordan Mitacek

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## EDUCATION

<b>Stony Brook University</b>	Stony Brook, NY
<i>B.S. Computer Science</i>	<i>May 2026</i>
<b>Suffolk County Community College</b>	Selden, NY
<i>A.S. Computer Science</i>	<i>May 2024</i>

## EXPERIENCE

<b>SULI Research Intern</b>	June 2025 – Aug. 2025
<i>Brookhaven National Laboratory</i>	<i>Upton, NY</i>
<ul style="list-style-type: none"><li>Built a JavaFX client integrating Bluesky Queue Server into Phoebus, enabling real-time plan management for beamline scientists without leaving the Phoebus environment</li><li>Designed high-performance REST service layer with rate limiting and retry logic, streaming live console output with sub-second latency</li><li>Achieved 100% request success rate in benchmark testing with mean response time of 18.6 ms</li><li>Deployed as standalone Phoebus application, reducing operator context switching and streamlining experimental workflows</li><li>Presented project poster to 300+ attendees at BNL's summer intern symposium</li></ul>	
<b>CCI Research Intern</b>	Aug. 2024 – Dec. 2024
<i>Brookhaven National Laboratory</i>	<i>Upton, NY</i>
<ul style="list-style-type: none"><li>Designed and implemented custom interpreter for Deposition Laboratory's control system, enabling EPICS-compatible scripting to streamline experiment automation</li><li>Developed Python bindings for interfacing with EPICS IOCs, enhancing system flexibility</li><li>Engineered Qt-based GUI for chamber status monitoring and user control, improving accessibility for researchers</li><li>Developed remote script execution using Bluesky QueueServer, allowing researchers to submit and execute experiment scripts remotely with asynchronous job scheduling</li><li>Presented project poster at BNL's fall symposium</li></ul>	

## PROJECTS

<b>Playlister</b>   <i>React, Node.js, Express.js, MongoDB, MySQL, JavaScript, Tailwind</i>	Sept. 2025 – Present
<ul style="list-style-type: none"><li>Developed full-stack CRUD web application for creating and managing music playlists with YouTube API integration</li><li>Implemented user authentication system with secure account management and session handling</li><li>Built RESTful API with both NoSQL (MongoDB) and relational (MySQL) database backends for playlist storage</li><li>Designed responsive UI using React and Tailwind CSS with features for playlist sharing, commenting, and song statistics</li><li>Integrated undo/redo system and local storage for enhanced user experience</li></ul>	
<b>MyrientDL</b>   <i>Python, SQLite, asyncio, httpx, Rich CLI</i>	Sept. 2025 – Present
<ul style="list-style-type: none"><li>Built asynchronous web crawler and download manager for game archival with resumable download support</li><li>Implemented fuzzy search algorithm with game name normalization, achieving 60+ match score threshold</li><li>Designed SQLite database schema with indexed queries for efficient game catalog searching across 10,000+ entries</li><li>Engineered rate limiting using token bucket algorithm and per-host semaphores to respect server resources</li><li>Created interactive CLI with Rich library featuring progress bars, concurrent download tracking, and filtering options</li></ul>	

## TECHNICAL SKILLS

**Languages:** Java, Python, JavaScript, C/C++, GLSL, Assembly (MIPS, x86), Bash, Lua  
**Frameworks & Libraries:** JavaFX, JUnit, Bluesky, Ophyd, Bluesky QueueServer, pytest, React, Node.js, Express.js, MongoDB, REST APIs, WebSockets, ZeroMQ  
**Developer Tools:** Git, IntelliJ Profiler, JavaDocs, SceneBuilder, Maven, Gradle  
**Systems & Technologies:** EPICS, Phoebus, Linux/Unix, Multithreading, Networking (HTTP, REST, Pub/Sub), LaTeX