Andrew VanNus | Undergrad CS Intern

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Education

Georgia Institute of Technology
Bachelor of Computer Science   *Fall 2021 - Fall 2023*
- GPA: 3.82, Major GPA: 4.00

Kennesaw State University
Bachelor of Computer Science   *Fall 2019 - Spring 2021*
- Achieved academic success studying full-time while balancing full-time career
- President's List: Fall 2019, Spring 2020. Dean's List: Fall 2020

Work Experience

Itential
Software Engineering Co-Op   *August 2021 - August 2022*
- Created and updated cross-platform API calls to leverage a new core utility
  - Separated new Redis and MongoDB calls in independent React pages to decrease SASS server load
- Developed application extension that allows end-users to run custom JavaScript code
  - Ensured safety / reliability in run-time for unsafe user code, with developer and user documentation
- Implemented a dynamic-programming approach to efficiently create dependency trees
  - Recursively found all dependencies needed for any application extension to be installed

Tie Down
Production Analyst   *July 2015 - March 2021*
- Led the growth-focused redesign for the vast majority of manufacturing facilities and departments
  - Designed production lines involving $10MM+ in assets and 200+ employees
- Drove analysis of production data, employee information, and business transactions
  - Efforts accumulate to >$500,000/yr in savings and increased production
- Brainstormed, designed, and machined in-house solutions for production scalability

Projects

Shut the Box Solver
- Finds most optimal solution to a given game state using a dynamic-programming approach
- Reduces run time by >7000% and objects created from approx. 8,700,000 to 512
- Transferring existing Java code base to an Android app to play on mobile

Unnatural Predator Self-Guiding Submarine
- An autonomous submersible vehicle that utilizes ORB vSLAM and image detection for invasive lion-fish
- Leading a group of contributors from different disciplines to accomplish our goals
- Story-boarding project milestones and tracking objectives' progress with teammates using Jira

Skills

Programming: Java, Python, C#, Javascript, Typescript, Node.js, MongoDB, NoSQL, SQL, Git, Linux, HTML, CSS, LaTex, Arduino, Flutter, Dart, Android Studio, Visual Studio Code, Intellij, Pycharm

Others: Solidworks, MasterCAM, Autodesk Inventor, AutoCAD, Fusion360, Fabrication, U.S. Citizen