Nikolai de Lisle Thompson
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EDUCATION

Dwight Look College of Engineering at Texas A&M University, College Station 2017-2021
Bachelor of Science in Computer Science and Engineering *GPA: 3.87/4.0*
Minor in mathematics

Westlake High School 2013-2017
High School Diploma *GPA: 96.5%*

WORK EXPERIENCE

Flash Parking, Inc., July and Aug 2018
Engineering Operations Intern-Austin, TX

VC-backed startup developing technology solutions to transform the parking industry.

- Translated the technical blueprints for parking kiosks into functioning units; constructed the kiosks and wired power supplies.
- Helped streamline shipping process to meet tight deadlines by re-organizing inventory, packaging process and assembly process.
- Effectively communicated with team of 5 to keep production smooth and efficient.

Texas A&M Health Science Center Aug 2019-Present
Student Technician-College Station, TX

- Managed video workflow to ensure that all lecture recordings were edited, uploaded and available to view by medical students.
- Worked with instructional designer to create textbook and lab slides that are easier to follow by adding graphics that better illustrate course structure.
- Gained general office skills and learned to use software such as Google sheets, video editing software and Articulate 360.

TECHNICAL SKILLS

- Proficient in C++, Java, MATLAB, and have moderate experience with JavaScript and C#.

PROJECTS/EXTRACURRICULARS

AI Weed Management System
Herbicide sprayer automation

- Created "database" of annotated Johnson Grass photos and used it to train a neural network to recognize Johnson Grass on sidewalks. The idea is that instead of spraying whole areas with herbicide it can instead be sprayed selectively thereby reducing the cost, and physical and environmental health impacts of herbicide. Publication coming soon.

The Aggie Coding Club
Member of the Chrome Calories team

- Worked to develop Chrome Calories: a chrome extension that scrapes a web page with a recipe and gives back nutritional information. Web scraping uses JavaScript running on Node.js to find the ingredient list in the website HTML. Then the ingredient list is given to an API with an NLP to determine exactly what amounts and types of foods are being given. Then it fetches a summed calorie count.

Math
Focus in number theory problems

- Invented formula for traversing the hailstone sequence (not all the way to 1).
- Proofs for summations of natural numbers, natural numbers squared, and a general case proof for any power. As well as several other proofs for summations of functions applied to each natural number up to n.