Kris Elbert

kristiannaelbert@gmail.com | (908) 487-8043
linkedin.com/in/kriselbert
github.com/kelbert2
kelbert2.github.io

EDUCATION

DUKE UNIVERSITY

BS in Electrical & Computer Engineering
BS in Computer Science

Graduated May 2019 | Durham, NC
Concentration in Digital Systems
Pratt School of Engineering

SKILLS

PROGRAMMING

- Java
- JavaScript
- C++, CUDA
- Matlab
- Swift
- Typescript
- C#
- SQL

FRAMEWORKS

- Angular
- React
- Knockout.js
- Vue.js

RELATED LANGUAGES

- Arduino
- HTML & CSS

3D MODELING

- Fusion 360
- 3DS Max
- SolidWorks
- AutoCAD
- Blender
- MudBox

ADDITIONAL SKILLS

- Adobe Illustrator
- Hand Milling and CAM
- Soldering

EXTRACURRICULARS

LEADERSHIP

Design for America
Secretary, Co-Team Lead

Duke University Marching Band
Treasurer, Piccolo

Duke Electric Vehicles
Co-Lead for Driver Strategy and Prototype Driver

VOLUNTEERING

Females Excelling More in Math, Engineering, and Science
Volunteered with elementary through high school-aged girls

Girls Engineering Change
Taught young women soldering skills and inspired them to pursue engineering degrees

EXPERIENCE

PRECISIONLENDER | Software Engineering Intern, Product Dev
June 2018 - Aug 2018 | Cary, NC

- Designed and implemented a full stack web app to deliver real time NLP-driven insights based on user queries to PrecisionLender's AI client.
- Created wireframes of the UI which was then developed using TypeScript, Knockout.js, HTML, and CSS to be a responsive, dynamic, and accessible experience. Used AJAX calls to retrieve JSON files that were parsed and reformatted in the C# backend.

CARBON | Software Engineering Intern, Life Sciences
June 2017 - Aug 2017 | Redwood City, CA

- Implemented a supply chain dashboard that reduced client wait time for sample parts by 33%. Written primarily in Java and VBA.
- Developed a full stack Excel dashboard to enable engineers to rapidly process and visualize 3D printing statistics from any individual Carbon printer.
- Generated and produced low-cost, high-resolution parts from client-submitted 3D files. Optimized client designs to decrease cost and production time. Validated part accuracy and material consistency.

DUKE INNOVATION CO-LAB | DesignHub Services Founding Member and Technical Consultant
Feb 2016 - May 2019 | Durham, NC

- Designed and constructed creative engineering solutions. Led a wide range of clients through the design process from concept to product. These clients consisted of students, Duke Hospital staff, and University Researchers. Notable past projects include third world organ transport devices and machinery parts.
- Organized and taught courses on CAD, 3D printing, and CNC machining.
- Oversaw the world's largest higher education 3D printing bank.

FATHOM | Software Engineering Intern
Aug 2016 - Nov 2016 | Durham, NC

- Built a framework to collect and accumulate force measurements and time series data from impact sensors embedded in an athlete insole.
- Wrote Google Sheets scripts to aggregate and curate millions of athlete training and recovery data points to inform injury prevention strategies.

COURSEWORK

GRADUATE LEVEL

- Human-Computer Interaction
- Modern Cryptography
- Mobile App Development (iOS)
- Digital Signal Analysis

UNDERGRADUATE LEVEL

- Software Design (MEAN Stack)
- Design & Analysis of Algorithms
- Operating Systems
- Database Systems (PostgreSQL)

AWARDS & RECOGNITION

Duke Technology Scholars 2017-2018

Shell Eco-Marathon, 1st Place 2017
Duke Electric Vehicles Team: Prototype Electric

Duke ChangeWorks Startup Challenge, 1st Place 2016
CodeStory: An interactive narrative to teach children to code, modeling lead and front end developer

HackDuke: Code for Good, Novice Prize 2016
Diagnosis of ADD and ADHD with Oculus Rift