Kris Elbert

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EDUCATION

DUKE UNIVERSITY
BS in Electrical & Computer Engineering

BS in Computer Science

Expected May 2019 | Durham, NC
Conc. in Digital Systems
Pratt School of Engineering
GPA: 3.1

SKILLS

PROGRAMMING
- Java
- VB and VBA
- JavaScript
- Swift
- C++
- C#
- Matlab
- SQL

FRAMEWORKS
- React
- Knockout.js

RELATED LANGUAGES
- Arduino
- HTML & CSS

3D MODELLING
- Fusion 360
- AutoCAD
- 3DS Max
- Blender
- SolidWorks
- 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
Volunteer with elementary through
high school-aged girls
Girls Engineering Change
Teach young women to solder and inspire 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 - Current | Durham, NC
- Designed and constructed creative engineering solutions. Lead a wide range of clients through the design process from concept to product. These clients consist 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 3D printing bank in higher education.

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

UNDERGRADUATE LEVEL
- Software Design
- Design & Analysis of Algorithms
- Operating Systems
- Database Systems

AWARDS & RECOGNITIONS

2017 **Duke Technology Scholar**
2017 **Shell Eco-Marathon** , 1st Place
Duke Electric Vehicles Team: Prototype Electric
2016 **Duke ChangeWorks Startup Challenge** , 1st Place
CodeStory: An interactive narrative to teach children to code, modelling lead and front end developer
2016 **HackDuke: Code for Good** , Novice Prize
ADD and ADHD Diagnosis with Oculus Rift