David C. Thames II

Current Address

Lee RM 0510
570 Washington St SW
Blacksburg VA 24061-9507
davidct@vt.edu

davidcthames.com
linkedin.com/in/davidcthames
757-880-6256

Permanent Address

3769 Captain Wynne Dr.
Williamsburg, VA 23185
davidc.thames@gmail.com

EDUCATION

2016-Present	**Virginia Tech**, Blacksburg, VA:

- Expected B.S. in CS in 2019
- Planned Master in CS in 2020 (Accelerated B.S. M.S. Program expected)

2014-2016	**Governors School for Sci. & Tech.**, Hampton, VA: CS Strand, Research Mentorship
2014-2015	**Virginia Aerospace Science & Technology Scholars Online Course**, Hampton, VA
2013	**Coursera (online):** Creative Programming for Digital Media & Mobile Apps from **University of London**

PROFESSIONAL EXPERIENCE

2016-Present Seasonal **Internship** and Part Time on Call at **MITRE Corp.** as a software development intern

- Agile Engineering and Innovation Department
- Technologies: Cybersecurity, Failsafe networking for aircraft and ground systems, Web apps, evolving standards of interactive eBooks
- Developing prototypes, researching, and writing technical papers
- **Spark Award:** For dedication to learning and competitive spirit

2017-Present **Undergraduate Research** with the **Crowd Lab** at Virginia Tech

- Civil War Photo Sleuth: Using crowd sourcing and artificial intelligence to identify civil war portraits

2016-Present **Founder of web design and development company DesigN**

2015-2016 **Mentorship at MITRE Corp.** with J. Brunelle on Mobile Web Archiving in conjunction with ODU research

- Developed a web service to aggregate and paginate data from Memento & Mobile Mink Android App
- Wrote a research paper which was published in GSST Science Research Journal

PROJECTS

2016 – 2017 **Exercise Experience**: affordable virtual reality biking

- Developed hardware bike speed tracker and Bluetooth VR Android app to playback 360 video
- **ACC Inventure Prize Competition finalist [Exe. Exp.]**: Shark Tank-style business pitch competition
- **VTKnowledgeWorks Global Entrepreneurship Challenge semi-finalist**

2017 **Social Stocks:** API and Web Interface for stock market/social media correlations

- **VTHacks: MicroStrategy Award & Github Developer Award**

2017 **RFID (MITRE SMACKATHON)** (Really Fast Information from Dog Tags) : Accessing medical info using NFC

- Developed and Android App, C# Webservice, and Web App using NFC technology to store and sync information from a SQL Database

2013-2016 **Co-Creator, Webmaster, and Lead Programmer** of **Math I/O**

- Developed Web based High School Level Math Games using modern HTML5 and JS
- Lead a team of 10 people using organizational tools and techniques used in industry

2016 **VR News (Hoya Hacks):** VR Visualization of News Data

- 3D environment created in Unity and News API created in PHP and hosted on an AWS Elastic Beanstalk server

2016 **Minimalism App (VTHacks):** Declutter your life and help charities

- Developed using Google Cloud Vision, a C# Web Server on Microsoft Azure, and an Android App
- **SQLServe Award** from SQL Sentry

2015 **AI Apparel (HackTJ):** have the best clothes for the day picked for you with machine learning

- Developed a Node.JS backend server with a trainable decision tree and a Polymer web app

EXTRACURRICULAR ACHIEVEMENTS

2017-Present **MITRE eCTF Competition:** Building secure communication between microprocessors and servers and penetration testing of competitors systems

2016-Present **Virginia Tech Science Festival**: Exhibited Exercise Experience

2016-Present **E Club:** Entrepreneurship club at Virginia Tech

2016 -Present **CTF Cybersecurity Competitions**: MITRE CTF (**10th place**), CNU CTF (**4th place**), TJCTF

2015-2016 **FRC Robotics** (Team 122): **District Event Winner**, **Quality Award** sponsored by Motorola

2015-2016 **Verizon innovative App Challenge**: '**Best in State**' and '**Best in Region**'

2015-2016 **Programming Competitions**: GCC at ODU (Web Design) (**2nd and 3rd**), VCU Programming Contest,

SKILLS

- **Computer Science**: Machine Learning, Computer Vision, Crowd-Sourcing, Virtual Reality, Cybersecurity
- **Programming Languages** - Java, C, C++, C#, Visual Basic, C#, Python, UnityScript, SQL
- **Web Development** – Cloud Hosting, HTML, CSS, JavaScript, JQuery, NodeJS, PHP, WordPress, and Bootstrap
- **EBooks** (EPub3 & Web Books) development, interactivity, and evolving standards
- **Organization tools** – Subversion, GIT, Slack, Waffle-IO
- **Graphic Design & Photography** & 3D Modeling – DSLRs, Adobe CC, Autodesk Maya, AutoCAD, Inventor
- **Networking** (basic): failsafe communication, cybersecurity
- **Operating Systems** (proficient)**:** Windows, Linux (Ubuntu, Raspbian, Kali), Mac, Android
- **Hardware** (basic)**: Circuits and microprocessors**, Arduino 101, Raspberry Pi, Cypress PSoC