

Dexter Callender III

Artist, Computational Designer, Senior Software Engineer

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EDUCATION

- 2022 - present | **Massachusetts Institute of Technology - Media Lab**
Master's in Media Arts & Sciences
MIT VCIE Endowed Fellowship Award Recipient
- 2013 - 2017 | **Columbia University - School of Engineering & Applied Science**
Bachelors of Science, Computer Science
Minor, Architecture
Louis Armstrong Jazz Performance Program

EXPERIENCE

- 2022 - present | **MIT MEDIA LAB**
Graduate Research Assistant
 - Funded graduate research assistant and master's candidate. Research Group: Future Sketches.
 - Write code and develop software frameworks to produce art and design. Express and teach programming concepts through creative mediums.
- 2021 - 2022 | **DEXTER CALLENDER III LLC**
Independent Senior Software Engineer
 - Developed web applications, data infrastructures, and system integrations for clients.Clients : House RX (Healthcare Technology), Commonwealth (Decentralized Governance)
- 2019 - 2021 | **COMPASS**
Senior Creative Developer
 - Worked with graphic, UX, & motion designers to improve design workflows and create engaging web experiences.Compass Sign Center - **Lead Full-stack Engineer** : Architected and developed an e-commerce platform and design customizer used to order physical real estate signs. Integrated with a large-scale sign manufacturer to print and fulfill orders.
Compass Pattern Generator - **Creative Developer** : Pitched and developed a parametric design tool used to produce and customize Compass' brand patterns.
Compass Motion Workshop - **Creative Developer** : Co-led a nation-wide workshop on computational approaches to graphic and motion design using code.
- Senior Software Engineer**
 - Architected and developed multiple revenue generating software systems. Highly reviewed.Compass Digital Ads - **Backend Engineer** : Developed a web application that enables real estate agents to place custom, branded advertisements on Facebook & Instagram.
Compass Wallet - **Full-stack Engineer** : Architected a payment system enabling real estate agents to store payment information and pay for services across all Compass products.
- 2019 | **HUGO & MARIE - CREATIVE STUDIO**
Web Engineer
 - Developed and improved websites for high-end fashion and finance clients. Collaborated with project managers & designers.

2017 - 2019

GOLDMAN SACHS

Software Engineer

- R&D Engineering Team

Machine Learning Platform - **Frontend Engineer** : developed the React UI for a platform that enables engineers to perform machine learning tasks in hosted python environments containerized in Docker and Kubernetes.

2016

GOLDMAN SACHS

Securities Strat Summer Intern

- Desks: Fixed Income Rates Trading, Credit Flow & Leveraged Finance

2015

NSF REU PROGRAM - FLORIDA INTERNATIONAL UNIVERSITY

Research Intern

- Developed a music analysis software to successfully identify and annotate jazz melodies and musical improvisation in 214 MIDI-formatted songs using the Needleman-Wunsch algorithm.

2014

COLUMBIA UNIVERSITY ROBOTICS LABORATORY

Summer Researcher

- Designed and 3D printed parts for an upper-body mobile robotic exoskeleton with the purpose of augmenting arm and muscle strength.

SKILLS

PROGRAMMING

Web : Javascript (Node.js, React, Three.js/WebGL, P5.js, Gatsby), HTML + CSS

General : Go, Python, Java, C++, Unix, Git

Database : Postgres, SQL, GraphQL

Infra: AWS, Github, Datadog, Contentful

Multimedia: Processing

SOFTWARE

UI/UX: Figma

Graphic: Adobe Illustrator, Adobe InDesign

3D: Rhinoceros + Grasshopper, Autodesk Fusion, Autodesk Inventor, AutoCAD

Video: Adobe Premiere, Camera Operation

MANUFACTURING

CNC Milling, Water jet, PCB Milling, Soldering, Laser Cutter, 3D Printer, Vinyl Cutter

MUSIC

Tenor Saxophone, Clarinet

AWARDS

2024

Council for the Arts at MIT Grant Recipient (\$5100)

2022

MIT Vice Chancellor's Inclusive Excellence Endowed Fellowship Award Recipient

2020

Most Creative Developer - Compass Superlative Awards

2016

Most Technical Hack (\$500) - Hackathon at Cooper Union

Project: Material

2016

Best Use of 3D in a Web Application (\$500) - Hackathon at Cooper Union

Project: Material

WRITING

Compass Engineering Blog - True North

An article on Compass Sign Center: How an empathetic engineer practice helps create impactful digital products

<https://medium.com/compass-true-north/sign-center-a-design-customization-platform-and-e-commerce-experience-e683c729916b>